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SHANGHAI PHARMACEUTICAL  
MACHINERY CO.,LTD





HONESTY AND GOOD FAITH CONTRIBUTE TO TOP QUALITY



## BRIEF INTRODUCTION

### About SPM

Shanghai Pharmaceutical Machinery Co., Ltd.(SPM) is a Group Corporation, special manufacturer and exporter of pharmaceutical machinery. We can supply the solid preparation machinery, liquid processing equipment, and pharmaceutical packaging machinery. Established in Shanghai, China, SPM has been in the pharmaceutical industry for many years. Our experience and knowledge in this field enables us to provide superior pharmaceutical machines at cost-effective prices. We also provide complete production lines, and deal with turnkey projects.

At SPM, we are able to provide a wide range of products, including pulverizers, blenders, granulators, sterilizing machines, blister packing machines, encasing machines, air compressors, and tablet testing instruments. These are just a few of our products; a complete list of them can be found on our product page. Our pharmaceutical machines, which are extremely durable, dimensionally accurate, and compact, conform to international standards, including: FDA, GMP, CGMP, HACCP, EDMF, and COS.

Our company is located in Shanghai, a major industrial city, and home to an international port, in China. This locale offers us abundant raw materials and convenient transportation, which enables us to provide our products at lower prices. As a result, our pharmacy equipment is very popular in Korea, India, Indonesia, Denmark, Romania, Russia, South Africa, USA, Australia, Argentina, and more.



### Quality Assurance

We are a quality-driven company and are focused on providing the highest quality pharmaceutical processing equipment. We employ a quality control department to verify each product at different phases, from the procurement of parts, through the delivery to our customers. In order to offer the best quality, we manufacture our products in accordance with international standards, such as FDA, GMP, CGMP, HACCP, EDMF, and COS. Additionally, we have acquired the most advanced equipment available, including a machining center, highly precise NC milling machine, digital display horizontal boring machine, and three-dimensional duplicating milling machine.

### Customer Service

Our excellent customer service also includes the installation of our machines. To ensure smooth performance, we also provide a one year warranty, and a spare set of wearing parts to our customers. If any difficulty occurs, we will supply free spare parts and even on-site service, upon request.

Please contact us to help you with your particular pharmacy equipment needs.





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## GZPL-680 DOUBLE SIDED HIGH-SPEED ROTARY TABLET PRESS



GZPL-680 Series High Speed Tablet Press is developed independently and newly produced by SPM. With advanced design and control technology, it is in a leading position domestically; Making advantage of own intellectual property, the main performances reach the international level in compliance with requirement of GMP and FDA.

#### Features:

Design of GMP & FDA.  
Same main compression and precompression force  
Interchangeable turret.  
Control by servo motor.  
Electronic record and signature in compliance with FDA 21 CFR Part 11.

#### Main Technical Data:

Model	PG 79	PG 73	PG 61	PG 49
Number of Station	79	73	61	49
Tooling Type	ISO19 BBS	ISO19 BB	ISO19 B	ISO25.4 D
Max. Output (tablets/h)	758,000	700,000	580,000	470,000
Max. Diameter (mm)	11	13	16	25
Max. Tablet Length (mm)	13	16	19	25
Max. Filling Depth (mm)	18			
Max. Tablet Thickness (mm)	8.5			
Max. Main Compression Force (kN)	100			
Max. Pre-compression Force (kN)	100			
Rated Power (kW)	14			
Power Supply	3AC/380V/50Hz			
Overall Dimension (L×W×H) (mm)	1860×1720×2060			
Weight (kg)	4800			
Noise (dB(A))	≤85			



## GZP500 SERIES HIGH SPEED ROTARY TABLET PRESS



### Application:

This machine is one kind of double side rotary tablet press machine, which can press granular materials into round shape tablet, irregular tablet or double-side engraved tablet.

This machine is mainly used in pharmaceutical, chemistry, foodstuff, electronic industries.

### Feature:

1. High speed with large quantity punches, double press rollers, suitable for mass production.
2. Made of stainless steel, the housing is fully closed. The surface of the rotary turret is covered with a hardened layer so that the turret surface is wear resistant. The machine conforms to GMP requirements.
3. Perfect tableting system, twice compression forming, reasonable framework with proper space and big pressure roller, machine performance is reliable and no tablet weight difference.
4. Double impeller type force feeder, improve granules flow-ability and filling performance, ensure the filling precision.
5. Automatic oil&grease central lubrication system, ensure the lubrication of pressure rollers, toolings and tracks, extending the working life of the machine.
6. Special oil proof, dust proof and noise proof design.
7. The machine can stop automatically in case of overpressure to protect the punch pins from being damaged.
8. PLC and touch screen control, automatic and easy control.

### Technical Parameters :

Model		GZP35	GZP43	GZP51A	GZP51B	GZP55
Number of Stations		35	43	51	51	55
Tooling Standard		D	B	BB	ZP	BBS
Max Main Pressure (KN)		100				
Max Pre-pressure (KN)		20				
Max Tablet Diameter(mm)	round tablet	25	18	13	13	11
	irregular tablet	25	19	16	16	13
Max Filling Depth (mm)		20	18	15	15	15
Max Tablet Thickness (mm)		8	7	6	6	6
Max Turret Speed (r/min)		50				
Max Production Capacity (pcs/h)		210000	258000	306000	306000	330000
Motor Power (kw)		7.5				
Overall Size (mm)		1370 × 1170 × 1800				
Machine Weight (kg)		3200				

## ZP1100 SERIES ROTARY TABLET PRESS



### Application:

This machine is single side rotary tablet press machine, which can press granular materials into round shape tablet, irregular tablet or double-side engraved tablet.

This machine is mainly used in pharmaceutical, chemistry, foodstuff, electronic industries.

This machine adopt international standard mould.

### Feature:

1. Meet GMP requirement, machine design is reasonable. Operation, dismantling and maintenance is convenient.
2. With high main-pressure and pre-pressure, extending the pressing time and making good quality tablets.
3. The speed of turret is high, its linear velocity is up to high speed tablet press.
4. PLC and touch screen control, all the running parameter can be set and shown.
5. The machine can stop automatic in case of any upper punch broken.
6. Adopt transparent windows, tableting state can be observed clearly. The windows can be opened, cleaning and maintenance is easy.
7. ZP1100A model is equipped with force feeder, to improve granules flow-ability and filling performance.

### Technical Parameters:

Model		ZP1124(A)	ZP1129(A)	ZP1134(A)	ZP1136(A)	ZP1139(A)
Number of Stations		24	29	34	36	39
Tooling Standard		D	B	ZP	BB	BBS
Max Main Pressure (KN)		80				
Max Pre-pressure (KN)		20				
Max Tablet Diameter(mm)	round tablet	25	18	13	13	11
	irregular tablet	25	19	16	16	13
Max Filling Depth (mm)		18				
Max Tablet Thickness (mm)		7				
Max Turret Speed (r/min)		65				
Max Production Capacity (pcs/h)		93600	113100	132600	140400	152100
Motor Power (kw)		4				
Overall Size (mm)		960×910×1750				
Machine Weight (kg)		1650				



## ZP120 SERIES ROTARY TABLET PRESS



### Main Application:

This machine is a single-press type, continuously automatic rotary tablet press for pressing various granular materials into tablets. It is mainly used in pharmaceutical industry of Chinese and western to produce large tablets, simultaneously adapted to chemical, food, and electronic industry.

### Characteristics:

1. The machine is compatible with the GMP requirement.
2. The mechanism of the machine belongs to single-press type. It has a prepressing track and the pressure rollers have bearings so that it has a large the pressure. It is stable in operation.
3. The punch and dies meet the international IPT standard. It can produce large tablets.
4. The tablet-pressing room is easy to clean and maintain.
5. An overload protection unit is including in the system to avoid the damage of the apparatus.
6. It is used advanced machatronics unit and touch keyboard and screen display, the speed adjustment of the driver is controlled by the frequency conversion device, and it is used the concentrated lubricating system.
7. The transmission system is located inside the wormgear box under the main body, and it is fully lubricated so that the pollutedness and the abrasion are greatly reduced.
8. With the appliance of utility model patent, the ways to fix the lower track and lower pressing wheels are especial, so that be remounted conveniently and fast.

### Technical Specifications

Model	ZPY120
Dies (sets)	20
Die standard	IPT
Max. pressure (KN)	80
Max. dia. of tablet (mm)	25
Max. depth of fill (mm)	18
Max. thickness of tablet (mm)	10
Turret speed (r/min)	5 ~ 32
Max. production capacity (tablets/hour)	38,400
Motor (kW)	4
Overall size (mm)	840×1015×1720
Net weight (kg)	1200

## ZP37 ROTARY TABLET PRESS



### Application:

This machine is one kind of double side rotary tablet press machine, which can press granular materials into round shape tablet, irregular tablet or double-side engraved tablet.

This machine is mainly used in pharmaceutical, chemistry, foodstuff, electronic industries.

### Feature:

1. Made of stainless steel, the housing is fully closed. The surface of the rotary turret is covered with a hardened layer so that the turret surface is wear resistant. The machine conforms to GMP requirements.
2. Adopt transparent windows, tableting state can be observed clearly. The windows can be opened, cleaning and maintenance is easy.
3. PLC and touch screen control, speed adjustable by frequency inverter, all the running parameter can be set and shown.
4. With high main-pressure and pre-pressure, extending the pressing time and making good quality tablets.
5. Hydraulic overload protection device is equipped, the machine can stop automatically in case of overpressure to protect the punch pins from being damaged.
6. ZP39i is upgraded model from ZP35B, its output is increased about 15% more than ZP35B.
7. Force feeder is optional on the machine.

### Technical Parameters :

Model	ZP37
Number of Stations	37
Tooling Standard	ZP
Max Main Pressure (KN)	80
Max Pre-pressure (KN)	10
Max Tablet Diameter (mm)	round tablet 13 irregular tablet 16
Max Filling Depth (mm)	15
Max Tablet Thickness (mm)	6
Max Turret Speed (r/min)	36
Max Production Capacity (pcs/h)	160000
Motor Power (kw)	4
Overall Size (mm)	1160×1070×1720
Machine Weight (kg)	2000



## ZP35D/ZP41D/ZP37D ROTARY TABLET PRESS



### Application:

This machine is one kind of double side rotary tablet press machine, which can press granular materials into round shape tablet, irregular tablet or double-side engraved tablet.

This machine is mainly used in pharmaceutical, chemistry, foodstuff, electronic industries.

### Feature:

1. Made of stainless steel, the housing is fully closed. The surface of the rotary turret is covered with a hardened layer so that the turret surface is wear resistant. The machine conforms to GMP requirements.
2. Adopt transparent windows, tableting state can be observed clearly. The windows can be opened, cleaning and maintenance is easy.
3. All the drive devices are located inside the machine so keep the machine clean.
4. The machine can stop automatically in case of overpressure.

### Technical Parameters:

Model	ZP41D	ZP37D	ZP35D
Number of Stations	41	37	35
Tooling Standard	ZP	ZP	ZP
Max Main Pressure (KN)	60	60	60
Max Tablet Diameter (mm)	round tablet	13	13
	irregular tablet	16	16
Max Filling Depth (mm)	15	15	15
Max Tablet Thickness (mm)	6	6	6
Max Turret Speed (r/min)	36	36	36
Max Production Capacity (pcs/h)	177000	160000	151200
Motor Power (kw)	3		
Overall Size (mm)	1120×950×1700		
Machine Weight (kg)	1850		

## ZPW SERIES ROTARY TABLET PRESS



### Application:

It is widely used to press various granular materials into tablets in the pharmaceutical, food, chemical, ceramic, electronic and battery industries.

According to the shape of tablet, our tablet press can produce round, irregular, ring shaped or double engraved tablets.

When it comes to the layer of tablet, this series press can make single layer, double-layer and even triple-layer tablets to satisfy different demands of our customers.

### Features:

The tablet press (or pill press) is compatible to the GMP requirements. The tablet-pressing compartment is separated from the driving mechanism to prevent the contamination of the pharmaceutical materials. It is made of stainless steel or zinc plated in the surface for good abrasion and corrosion resistance.

With the main machine and the operational control panel separated, ZPW multi-functional rotary tablet press is convenient to operate and maintain.

Adopting PLC programmable controller, the main functions, production data and malfunction of the tablet pressing are monitored and controlled.

Due to the use of inverter, the adjustment of speed is stepless and reliable with a wide range.

Motor with frequency inverter is utilized to ensure the constant power and speed adjustment with consistent torque, thus meeting the requirement on the torque with the stipulated range for the rotary speed of the press.

### Main Technical Parameter:

Model	ZPW25	ZPW31	ZPW37
Number of Stations	25	31	37
Tooling Standard	D	B	BB
Max Main Pressure (KN)	80		
Diameter (mm)	round tablet	25	18
	irregular tablet	25	19
Max Filling Depth (mm)	18		
Max Tablet Thickness (mm)	7		
Max Turret Speed (r/min)	20	35	40
Production Capacity (pcs/h)	30000	65100	88800
Motor Power (kw)	4		
Overall Size (mm)	1050*900*1880		
Machine Weight (kg)	2000		



## ZP11 ROTARY TABLET PRESS

### Application

Rotary Tablet Press Model ZP11 is used in electronic industry, food industry, and chemical industry, daily use industry and pharmaceutical industry, for pressing various granular raw materials into special shaped tablets. For example: electronic element, camphor ball, fertilizer, catalyst and powder metallurgy.

### Main Technical Parameter:

Dies(sets)	11
Max. Dia. of Tablet(mm)	Chunk32*32/ Round 45/Circle 45*20
Max. Pressure(KN)	100
Max. Depth of Filling(mm)	45
Turret Speed(r/min)	6-12
Max. Capacity(pcs/hour)	7920
Motor Power(kw)	5
Overall Size(mm)	1100*1000*1900
Net Weight(Kg)	2000



## ZP5-9 ROTARY TABLET PRESS



## ZP17E ROTARY TABLET PRESS

### Application:

This machine is suitable for pressing various kinds of granular materials into round tablet or different geometrical shape tablets, specially for small-scale batch production.

### Feature:

1. Made of stainless steel, the housing is fully closed. The surface of the rotary turret is covered with a hardened layer so that the turret surface is wear resistant. The machine conforms to GMP requirements.
2. Adopt transparent windows, tableting state can be observed clearly. The windows can be opened, cleaning and maintenance is easy.
3. All the drive devices are located inside the machine so keep the machine clean.
4. The machine can stop automatically in case of overpressure.
5. With pre-pressure roller, extending the pressing time and making good quality tablets.
6. force feeder is optional.

### Main Technical Specifications

Model	ZP17E
Number of Stations	17
Max Main Pressure (KN)	50
Max Pre-pressure (KN)	10
Max Tablet Diameter (mm)	round tablet 20
	irregular tablet 22
Max Filling Depth (mm)	15
Max Tablet Thickness (mm)	6
Max Turret Speed (r/min)	40
Max Production Capacity (pcs/h)	40800
Motor Power (kw)	2.2
Overall Size (mm)	950*770*1740
Machine Weight (kg)	900



Meeting the GMP standard, ZP-5, 7, 9 type tablet presses are ideally-designed to press granular raw materials into round, non-round tablets for laboratory use for research and development or small-scale production in pharmaceutical, chemical and food industry. The working parts are enclosed by transparent windows so that press condition can be observed clearly and the windows can be opened. Cleaning and maintenance is easier. The machines feature small volume, low weight, low noises and tidy appearance. The alarming system and vacuum cleaner are attached. The speed adjustment of the driver is controlled by the frequency conversion device.

### Main Technical Parameter:

Dies(sets)	5	7	9
Max. Pressure(KN)	40		
Max. Dia of Tablet(mm)	12 (non-round shape:14)		
Max. depth of Filling(mm)	15		
Max. Thickness of Tablet(mm)	6		
Turret Speed(r/min)	0-36		
Production Capacity(pcs/h)	10800	15120	19440
Motor Power	1.5kw, 1440r/min, 220,380V/50HZ		
Overall Size(mm)	660*560*1450		
Net Weight(Kg)	380		



## CFQ-1 TABLET POLISHER

### Main Applications:

Our polisher is mainly used for deducting the powder carried by the tablets, and for driving out the tablets' rough side, as one of the corollary equipment for rotary tablet press. It is widely used in many industries, including pharmacy, food and chemical, and others.

### Polisher Features:

Advanced design, integrating the advantages of similar machines at home and abroad

Automatic tablet and powder separating, continuous speed adjusting

Convenient maintenance, high productivity, low noise

### Technical Specifications :

Production capacity	550,000 Tablets/h
Motor power	220V 0.2kw
Overall dimensions	500 x500 x 1000mm
Weight	25kg



## XCJ-36 DUST COLLECTOR

### Main Applications:

Our dust collector is widely used in collecting industrial dust for pharmaceutical industry. It is the essential ancillary equipment for tablet press, granulator machine, pulverizer, counting machine, capsule filling machine and capsule polishing machine. As a renowned China dust collector maker, we are sure you will be satisfied with our products.

### Main Technical Parameter:

Model	XCJ-36
Motor(kw)	1.1
Inhale air(m³/h)	360
Air vacuum(Pa)	19500
Noise(dB)	< 75
Weight(kg)	72
Overall size(mm)	700*460*1030



## ZKS VACUUM CHARGING MACHINE

ZKS Vacuum charging machine is specially designed for lifting granules to higher position, such as for packing machine, pulverizer, vibration screen etc. It consists of feeding pipe, hopper, cloth bag filter, reverse-blowing device, vacuum pump and pneumatic T-connection valve etc.

Utilizing the vortex vacuum pump, the feeding nozzle and the whole system lie in the vacuum condition. Powder together with the air is absorbed into the nozzle, forming the feeding air current which go through feeding pipe to the hopper. There occurs the separation between air and feeding material. The separated materials enter the receiving equipment.

### Main Technical Parameter:

Model	Motor powder (kw)	Lifting capability (kg/h)
ZKS-1	1.5	400
ZKS-2	2.2	550
ZKS-3	3	800
ZKS-4	5.5	1500



## QVC SERIES PNEUMATIC VACUUM CONVEYER

### Application:

QVC Series Pneumatic Conveyor is used in automatic material for Tablet Press machine. Pulverizing machine, capsule filling machine, Screen machine .Packing machine, Pulverizing machine, Screen machine and Mixing machine etc. It doesn't need any mechanical vacuum pump, so it is simple structure, small volume, without repairing, no noise and easy to control. It can be stopped separating layer for the feeding material because the machine has high vacuum. QVC Series Pneumatic Vacuum Conveyor was designed according to international standard. It is easy cleaned and beautiful. It is up to GMP requirement.

### Characteristic:

Solve the problem thoroughly about the separating layer of material.

The sintered-metal filter is Japanese original.

It can be removed the material static electricity.

It is airtight without crossed contamination.

It is made of good quality stainless steel(304 and 316L).

It is made of non-toxic and corrosion resistant material.

Filter is to clean.

It is controlled intelligently and automatically.

It is easy dismantled with building blocks structure.

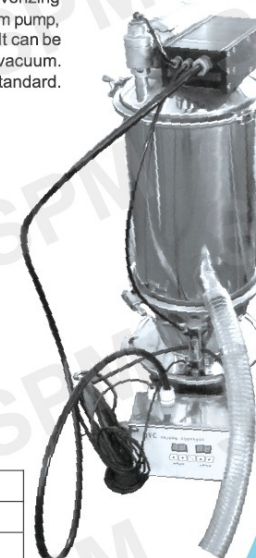
It is easy set up and small volume, the weight is light

It is no noise and screening

It is economical and practical the cost is lower.

### Main Technical Parameter:

Model	Capacity(kg/h)	Compressed Air(L/min)	Mpa
QVC-1	350	180	0.4-0.6
QVC-2	700	360	0.4-0.6
QVC-3	1050	540	0.4-0.6
QVC-4	1500	720	0.4-0.6
QVC-5	3000	1440	0.4-0.6





## NJP FULL AUTOMATIC CAPSULE FILLING MACHINE



NJP400, 800, 1200, 1800, 2000, 3500 model series automatic capsule filling machines are the advanced filling machines which are developed after absorbed many advantages of same kinds of machines inside and outside our country, which conform to GMP standard.

- 1.This machine runs as per automotive separating revert interval, feeding, removing useless caplets, clipping and coming capsule, cleaning mould are completed at same time, which has reached high precision an low noise levels.
- 2.With the automotive controlled, stepless speed adjusted digit display, the machine is easy to operate.
- 3.This machine is with good suitability, high frequency for filling Chinese and Western medicines. Which adopted more whole type working principal, exact calculating, the difference of packing are more advanced than its standard of governments. Which adopted more whole type working principal, exact calculating, the difference of packing are more advanced than its standard of governments pharmacopoeia.
- 4.It is equipped with safety-protection unit for people ad machine. It can be automatically stopped when the material used up it is good equipment for a manufacture producing capsules.

### Main Technical Parameter:

Model	NJP-400	NJP-800	NJP-1200	NJP-1800	NJP-2000	NJP-3500
Capacity (PC/Min)	400	800	1200	1800	2000	3500
Capsule Size	00-5#					
Filling Precision	>98%					
Designing Precision	Better than CP regulation					
Voltage	380V, 50Hz, 3 phase					
Power(Kw)	3	4	6.6	8	8	10.5
Noise (dB)	Lower than 86					
Vacuum(MPa)	(-0.04)~-0.085					
Compressed Air	75m <sup>3</sup> /h0.4Mpa					
Suction	700m <sup>3</sup> /H2*105pa					
Overall Size(mm)	730*950*1700	820*960*1800	910*1000*1800	1100*1300*1800	1100*1300*1800	1170*1560*2000
Net Weight(Kg)	700	800	950	1000	1000	2200

## JTJ-A SEMI-AUTOMATIC CAPSULE FILLING MACHINE

### Brief Description

The machine is a new type of medicine packing machine with novel structure and attractive appearance. Under both electrical and pneumatic control and equipped with an automatic electronic counter and computer-controlled speed-adjusting device, the machine can accomplish the positioning, separation and locking etc. of capsules. In place of manual capsule-filling, it can reduce labor intensity and up to sanitary standards for pharmaceuticals.

The machine consists of capsule feeding, turning and separating mechanism, material medicine filling mechanism, locking device, electronic speed varying and adjusting mechanism, electrical and pneumatic control system, protection device as well as accessories such as vacuum pump and air pump.

China machine made capsules or the imported capsules are both applicable to this machine, with which the finished product qualification rate can be above 97%.



### Main Technical Parameter:

Max. Production Capacity(pcs/h)	12500
Suitable capsule numbers	0# ~ 4#
Power	2.21 kw, 380V, 50Hz
Weight(kg)	330
Overall Dimension(mm)	1290*685*1600

## CYJ150 MEDICINE POLISHER

This machine is a novel special equipment for pharmacy. Under the drive of stepless regulating motor, it can polish and clean the dust attached to the capsule and tablet to improve the surface of polished medicine. It is suitable for various capsules and tablets to polish.



### Main Technical Parameter:

Max production capacity(pcs/h)	70000
Total power(Kw)	220V/50Hz 1.5Kw
Overall dimension(mm)	1300*50*1200
Weight(Kg)	45



## RG SERIES ENCAPSULATOR (WATER COOLING)



Model RG series soft-capsule production line is a new generation of rolling-mold water-cooled soft-capsule line optimally designed and finely manufactured on the basis of foreign latest technology.

Its main technical specifications reach the international advanced level and conform to standard GMP.

Model RG series soft-capsule production line consists of the gelatin-melting pot, thermal-insulated gelatin-storage pot, electrical control panel, main machine conveyor, setting-drying rotary-cage, ruptured-gel recovery unit, and colloid mill. It works under the following principles. The oily or gelatin-insoluble liquids, pastes, or plasters (e.g. extract from Chinese Medicine Herbs) are injected into between two rolling gelatin skins in a given quantity, cut, and then formed through two rolling molds into various-shaped soft-capsules, such as egg-shape, fish-shape, cylindrical shape ball-shape and calabash. These products are widely used in many industries such as medicine, cosmetics, health goods and pesticides.

This production line offers the following ten merits:

The water-cooled models eliminate the dust contamination resulted from the air-cooling.

In comparison with 6-inch model the optimized rolling-models increase the output by 30%-40% and meanwhile remarkably enhance the utilization ratio of gelatin.

The gelatin is pneumatically conveyed from the thermal-insulated gelatin-storage pot through the ground, which improves the production environment.

The food-grade conveyance belt produced by Lexno Corporation (USA) (FDA approved) is used for conveyance of capsule, which is non-toxic, non-sticky, and easily washable.

The setting-drying rotary cage is made of stainless steel expanded sheet, which is free of dead corners and easily washable. An oil pan is placed under the rotary cage to ensure a working environment free of oil drops.

All the electric elements are imported from famous manufacturers and have stable performances.

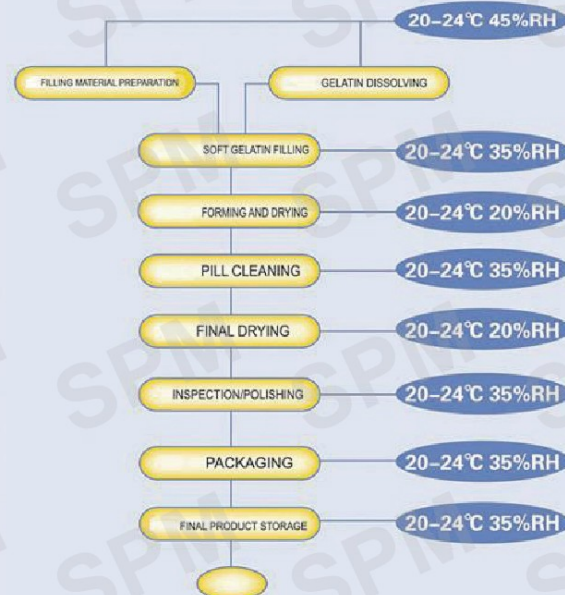
In production of low-dosage products, the accompanied 10-station and 14-station injection rod fully utilizes the width of molds and enhances the gelatin-utilization ratio and output.

The optimal-designed injector extends the range of consistency of medicine solution.

The improved capsule-peeling unit minimizes the probability of wrapping of the waste gelatin skin onto the gelatin-peeling rod.

Except that the injector, the spreading box and the rolling-mold conveyance belt are made of special materials, the parts contacting with medicine are made of 304 or 316 superior stainless steel and absolutely conform to standard GMP.

### Workflow of Soft Gelatin Capsule



### Main Technical Parameters:

Model of the machine	RG1.5-75	RG0.8-110	RG2-180
Die Roller Speed(r/min)	0-4	0-7	0-5
Die Roller Dimension	Φ 64 x 75mm	Φ 72 x 110mm	Φ 103 x 180mm
Single Piston Pump Material Supplied(ml)	0-1.5	0-0.8	0-2
Power Supply	220V 50Hz 0.75Kw 220V 1.8Kw	380V 50Hz 0.75Kw 220V 0.75Kw	380V 50Hz 1.5Kw 220V 1.93Kw
Noise target(dB)	<70		<75
Overall Dimensions(mm)	800 x 800 x 1200	1250 x 900 x 1820	1100 x 1450 x 2150
Net Weight of machine (kg)	300	600	980

### Conveyor:

For convenient operation, it is directly fixed on the main machine. The food grade conveyance belt of Lexno Corporation (USA) (FDA approved) is non-toxic, non-sticky, and easily washable, and it eliminates both the difficulties in thorough clearing of the gaps between the meshed stainless steel belts and the cross-contamination in production of different varieties.



## BGB SERIES HIGH-EFFECT COATING MACHINE



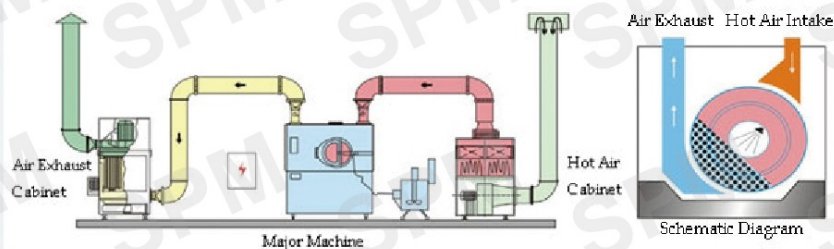
### Application:

BGB Series High-effect coating Machine is special equipment on coating for Chinese and Western tablet, pill etc, coating for thin film of aqueous phase and organic matter, and adopted the materials of high-quality & stainless steel to make. In the processing of operation can be controlled by computer programmable system and manual operation, touch screen display the picture. It is sound in beautiful appearance, advance & all round functions, high-efficiency saving for energy, simply operation, convenient clearing etc. and is the ideal coating equipments.

### Features & Functions:

- The process of equipments coating should full enclose and finish-out with the state of negative pressure & drying in the main body cylinder, it is sound in high-efficiency, saving for energy, un-flying for dust, low pollution for interactive tablet, simple for coating workmanship, short for time, high for benefits, convenient for clearing, and lower noise, and in line with International "GMP" Standard.
- It is quick & accurate to operate by adopting the importing computer programmable control, functions by displaying for touch screen, frequency conversion.
- The machine can be set the drug temperature in cylinder randomly, its temperature error is  $\pm 2^{\circ}\text{C}$ .
- Purifying for hot air is 100,000 grade, and its working procedure is exhausted, dust collecting & filtering, spare the anti-shock & anti-noise devices.
- Preferred importing spray gun from Japan can adjust freely to air flow capacity, which is featured by no-leaking & blockage, even atomization, multivariable for spray efficiency and long life for use, and meet the varied drug coating of thin film.

### Coating Technical Process Flow



### Main Technical Parameter:

Type		BGB-10	BGB-40	BGB-80	BGB-100	BGB-150		
Production capacity(kg /time)		10	40	80	100	150		
Diameter of coating drum(mm)		φ580	φ800	φ930	φ1050	φ1200		
Diameter of feeding mouth(mm)		φ300	φ340a	φ380	φ420	φ480		
Rotating speed of coating drum(r/min)		2~25	2~20			2~18		
Electrical motor power of main body(kw)		0.55	1.1	1.5	2.2	2.2		
Electric motor power of air heater(kw)					1.5			
Electrical motor power of exhauster(kw)		0.75	2.2	3	5.5	5.5		
Air heater flow(m³/h)		900	2500	2700	2356	3600		
Exhauster flow(m³/h)		1285	3517	5268	7419			
Main body noise(dB)		≥75						
Air heater noise(dB)								
Exhauster noise(dB)								
Appearance size of body(mm)		900X700X1400	1100X850X1470	1370X1050X1700	1450X1150X1900	1570X1260X2030		
Main body weight(kg)		200	500	600	850	850		
Appearance size of exhauster		750X600X1130	820×720×1750	900X820X1650	1000X900X1650	1000X900X1650		
Exhauster weight(kg)		300	450	500	550	550		
External Condition	Heating type with Vapor	Power supply	Three-phase 5 - wire 7 kw	Three-phase 5 - wire10 kw	Three-phase 5 - wire 12 kw	Three-phase 5 - wire 12kw	Three-phase 5 - wire15 kw	
		Purify air	Pressure(Mpa)	≥0.4				
			Air consumption (m³/min)	0.2	0.5	0.35	0.45	0.5
		Vapor	Pressure(Mpa)	≥0.4				
			Air consumption (kg/h)	30	60	80	100	100
		Water head	Pressure	≥0.15				
			Cabilber	1"				
		Power supply		Three-phase four- wire 10kw	Three-phase four- wire 16kw	Three-phase four- wire 20kw	Three-phase four- wire 25kw	Three-phase four- wire 25kw
		Purify air	Pressure(Mpa)	≥0.4				
			Air consumption (m³/min)	0.2	0.2	0.35	0.5	0.5
		Water head	Pressure(Mpa)	≥0.15				
			Cabilber	1"				



## GZL SERIES VACUUM FREEZE DRYER



The freeze dryer made by our company is designed and manufactured strictly according to GMP Specifications, and has the following merits:

- All the parts contacting the products are made of stainless steel 316L, the surface roughness reaches  $Ra \leq 0.5\mu m$ .
- The inner circle of the chamber has a smooth transition without dead corner, no objects accumulated.
- Considering for user, the structure is easy to clean.
- Option for steam sterilization or chemical sterilization.

Except for the above, our company can also provide automatic running CIP(Clean-in-Place) and SIP(Sterilization-in-Place) functions to ensure the high quality of cleaning and sterilizing the equipment.



### SIP:

Use overheats pure steam ( $121^{\circ}C$ ).  
Equipped with cooling water jacket, after sterilizing, it can fast reduce the temperature of the chamber(if less than  $20^{\circ}C$ ), the equipment is standard configuration.)  
Optional pneumatic door lock, it locks automatically.  
Use imported sterilization filter to ensure absolutely sterilized air entering equipment.  
The chamber and various kinds of container and tube are all wrapped with imported insulation material to efficiently avoid from heat transmission.  
Can carry out constant humidity control to the refrigeration humidity.  
Equipped with water ring pump capable to eliminate residual water inside the chamber.

### CIP:

High pressure clean water thoroughly wash inner surface of the chamber and ice condenser.  
Equipped with large flux CIP pump.  
Fixed with CIP tubing that automatically drains the residual water.  
Use rotary fixed nozzles with  $360^{\circ}$  angle spraying.  
The hydraulic rod in hydraulic system adopts bellows to prevent oil from leaking and product can be protected.

The freeze dryer made by our company has a proper layout and enough space to benefit the maintenance and operation of the equipment.

Rectangular or cylinder shape drying chamber(user may choose one of them)

Horizontal of vertical ice condenser

Integral design can fully use space.

Separated design can make each component independent, easy to operate and maintain.

Working temperature scope of ice condenser:  $-8^{\circ}C$  (when it is dry)  $\sim +121^{\circ}C$  (when in steam sterilizing).

Pressure scope of the chamber: 1Pa

Use industrial pressure vessel standard: GB150-1998 series.

Conform to national vacuum equipment standard: GB/T3163-3164

GMP and FDA relevant regulations.

Standard of international Electrotechnical Commission(IEC)

China Electric Equipment Standard(GB)

The drying chamber, shelf and ice condenser is made of stainless steel 316L.

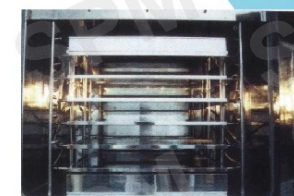
TIG welding avoids gap that can not be cleaned and possible leakage.

The welding point the tube is photographed with X-ray, with inspection record and certification of qualification.

The roughness of inner surface reaches  $Ra \leq 0.5\mu m$ , mirror polished.

Leakage rate of the system  $\leq 5 \times 10^{-2} mbar / sec$  to ensure normal and reliable running.

There is no dead corner in the chamber, the connection of tube is simple and reasonable, easy to clean.



The freeze dryer uses the best refrigeration system to freeze the product and condensate the steam produced during freeze-drying procedure. Freeze-drying technology requires the refrigeration system to keep a low temperature status for a long period of time, therefore, the requirements to the refrigeration system are very high. But the freeze dryer of our company can easily help you reach your goal.

Use world famous brand, e.g. Frascold, Danfoss, Copeland, Castel, Edwards, and etc.

The system uses double stage half sealed piston compressor to reach first class temperature reducing speed rate and the lowest temperature in China.

Power in the system is much greater than needed to efficiently ensure the refrigeration performance.

Digital and module design has a high protection to ensure the system to run normally and stably.

The powerful refrigeration system, liquid spray cooling system and other protection installations keep the best working temperature and high reliability for system.

The sensitive transducing system can provide alarm and protection in time against abnormal running situation.

Refrigeration conforming to the world environment protection requirement, such as HCFCR22 and HFCRA for choice.

Special synthetic lubricating oil can eliminate various kinds of problem due to high temperature of normal mineral oil.

The vacuum system of the freeze dryer provides a necessary pressure environment to freeze drying procedure. Cooperating with ice condenser, it can reach the vacuum level required by the freeze-drying procedure. To make the system run stably under high vacuum situation, the key point is the performance of the vacuum pump, and the valve, seal and instrument that cooperate with the pump.

The vacuum system of our freeze dryer has the following characteristic:

Standard configuration, uses Edwards double stage oil sealed rotary vane vacuum pump.

Option: Edwards pump

Equipped with two vacuum probes, for measuring the vacuum level of drying chamber and pump respectively.

Option: condenser type vacuum meter.

There are two methods for controlling drying chamber vacuum level:

1. Control opening and closing of the air inlet valve, introduce the sterilized air from sterilized room.

2. Control opening angle of main separated butterfly valve to reach the purpose of controlling the vacuum level.

Separated butterfly valve between drying chamber and ice condenser, circulation pump, spotlight and other components and etc. of the freeze drier, use the first class brands from other countries or from domestic factories.

The above systems of our freeze dryer have the following characteristics:

A main separated butterfly valve or mushroom valve is equipped between the drying chamber and ice condenser to keep a no leakage seal in both directions.

Use labial margin seal design to compensate the change of temperature and pressure during operation.





### Main Technical Parameters:

Working Length(mm)	750
Liner Velocity(m/min)	2.5
Power Supply	220V 25W
Overall Dimensions(mm)	950 x 260 x 200

### Electrical Control Panel

The electrical control panel of the main machine is used for control of running and thermostat of the main machine, the conveyor, the thermal-insulated gelatin-storage pot, and the setting-drying rotary-cage, as well as for frequency-conversion infinite speed-adjustment and digital display and in order to ensure high reliability and service life in the panel elements from international famous manufacturers are used.

### Thermal-insulated Gelatin-storage Pot

Volume(L)	170
Water Stored Quantity(L)	70
Heater Power	220V 2Kw
Temp. Control Range(C)	0-99

It is used to store the gelatin solution during production of the soft capsules.

The three-layer jacket type design has remarkable effects in thermal insulation and warm-retention.

The water-bath heating and Japan imported PKC temperature controller may accurately control the temperature of the material inside the pot.

The pneumatic conveyance of gelatin through the ground improves the production environment.

### Setting And Drying Cage

### Main Technical Parameters:

Shaping Rotator Joint Quantity	4
Shaping Rotator speed(r/min)	12
Power supply	380V 370W X 4
Fan capacity	1000 m³/hx8
Fan power	220V 75W X 8
Overall Dimensions(mm)	3050X830X995
Net Weight of machine(Kg)	500

Each group of setting-drying cage consists of 4 sections and both end faces are providing with fans. The driving system of each section can be clockwise and counterclockwise rotated and independently controlled. It is mainly used for setting the capsules soft capsules formed from the main machine and for drying of the cleaned capsules.

The split-manufacture mode facilitates users site installation.

The cage body is made of 304 superior stainless steel expanded sheet and is possible to easily and thoroughly in wash.

A stainless steel oil pan is placed under each section of cage to keep the production shop clean.

### COMMON SOFT CAPSULE SHAPES & SIZES

#### (ROUND)

NO.	1.5	2	3	6	7	8	10	36	40
MINIMS	1.5	2	3	6	7	8	10	36	40
MILS	0.092	0.123	0.185	0.37	0.431	0.493	0.616	2.218	2.464

#### (OBLONG)

NO.	4	5	6	8	10	11	14	16	20
MINIMS	4	5	6	8	10	11	14	16	20
MILS	0.246	0.308	0.37	0.493	0.616	0.678	0.863	0.986	1.232

#### (OVAL)

NO.	1.5	2	3	4	5	6	8	10	32
MINIMS	1.5	2	3	4	5	6	8	10	32
MILS	0.092	0.123	0.185	0.246	0.306	0.37	0.493	0.616	0.972

#### (TUBE)

NO.	5	5.5	6	8	9	9.5	10	18	20
MINIMS	5	5.5	6	8	9	9.5	10	18	20
MILS	0.308	0.339	0.37	0.493	0.555	0.585	0.616	1.109	1.232

#### (DROP)

NO.	5	6	8	10	12	15	20	24.5	30
MINIMS	5	6	8	10	12	15	20	24.5	30
MILS	0.308	0.37	0.493	0.616	0.739	0.924	1.232	1.509	1.848

#### (CALABSH)

NO.	4	5	5.5	6	6.5	8	10	12	15
MINIMS	4	5	5.5	6	6.5	8	10	12	15
MILS	0.246	0.308	0.339	0.37	0.4	0.493	0.616	0.793	0.924

#### (GOLDFISH)

NO.	10	12	14	15	16	18	19	20	25
MINIMS	10	12	14	15	16	18	19	20	25
MILS	0.616	0.739	0.863	0.924	0.986	1.109	1.17	1.232	1.54

#### (FLAGON)

NO.	6	7	7.5	8	8.5	9	10	12	15
MINIMS	6	7	7.5	8	8.5	9	10	12	15
MILS	0.37	0.431	0.462	0.493	0.524	0.555	0.616	0.793	0.924

#### (FISH)

NO.	4	5	6	7	7.5	8	9	10	12
MINIMS	4	5	6	7	7.5	8	9	10	12
MILS	0.246	0.308	0.37	0.431	0.462	0.493	0.555	0.616	0.793

#### (AUBBEGINE)

NO.	5	6	6.5	7.5	8	9	10	12	39
MINIMS	5	6	6.5	7.5	8	9	10	12	39
MILS	0.308	0.37	0.4	0.462	0.493	0.555	0.616	0.793	2.402



Eccentric valve rod and eccentric butterfly valve eliminate the wear-out of upper and lower ends of valve seat during frequent opening.

May choose electric of pneumatic driving device.

Imported original electric driver can steplessly adjust the opening angle of butterfly valve, control the vacuum level of the drying chamber to avoid from being polluted.

Stainless steel valve body and TEF elastic valve seat conform with GMP specification.

The drying chamber and ice condenser are equipped with sight glass. The sight glass can be equipped with spotlight to obtain clear monitoring.

Shelf refrigerating heating system uses Denmark Grundfos UPS circulation pump, Sweden plate type heat exchanger. The size of the exchanger is small, this reduces the heat conduction mediator and energy consumption, raises the refrigeration efficiency.

The control system of the freeze dryer provides a reliable whole procedure control for the freeze drier. It has advanced functions of displaying, controlling, recording, printing and alarming.

The control system of our freeze dryer has the following characteristics:



The main air switch, transformer and AC contactor fixed in electric cabinet are Siemens products. The electric cabinet is secured on machine frame. All machine pump motors are equipped with overheat protection, solenoid valve and heating circuit are equipped with separate protection.

The display screen uses Mitsubishi touch screen, PLC, indicating light, sound-light alarming system, and etc.

Temperature measuring, pressure measuring, the components can work normally under high temperature, ultra-low temperature and high vacuum level with high reliability.

The control system can display the running status of all components of the whole system, and can store and process the operation information and various data. It can provide procedure recording report of whole freeze-drying process. It can alarm on failure or abnormal situation and provide checking for maintenance, the operator can set and modify data and steps.

Our company operates its own internal Quality Management system that provides the foundation for ISO 9001 accreditation. This system provides the basis for comprehensive documentation of the manufacture of all its products, ensuring customers are provided with full details of their equipment.

Standard documentation supplied with every freeze dryer includes:

- Electrical diagram
- Piping and instrumentation diagram/drawing (P&ID)
- Component list
- Certificates of conformance for Critical components
- Operating instructions
- Maintenance instructions
- Copies of pressure vessel certificates

Our company also is able to provide IQ and OQ documentation to assist customers with equipment validation. Calibration documentation is also available. These services are not part of the standard scope of supply.

## Main Technical Parameter:

Model	GZL0.5	GZL1	GZL2	GZL3	GZL6	GZL8	GZL10	GZL15	GZL20	GZL30	GZL40	GZL50
Usable shelf area(m²)	0.5	1	2	3	6	8	10	15	20	30	40	50
Shelf size(mm)	300*450	405*610	610*810	810*915	915*1215		1215*1215	1215*1615	1520*1615			
Number of shelf	4+1				5+1	7+1		8+1	10+1		16+2	20+2
Shelf spacing(mm)	80	100										
Shelf level(mm/m)	±0.5											
shelf surface roughness(Ra)	0.5											
Shelf lowest temperature(℃)	-50~-60											
Shelf temperature scope(℃)	-60/+70											
Shape of chest	Rectangular											
Chest inner surface polish	Mirror											
Structure and shape of water capturer	Horizontal cylinder											
Lowest temperature of water capturer( )	60											
Capturing amount of water capturer(kg)	10	20	40	60	120	80	200	300	400	600	800	1000
Refrigerator power	1*2hp	1*5hp	1*10hp	1*10hp	2*10hp	2*15hp	2*15hp	2*25hp	2*30hp	3*30hp	1*75hp	20*50hp
Vacuum suction rate(m³/h )	18	30	40	60	80	120	160	240	350	525	700	825
Control system	Automatic + manual											
Power of whole machine(kw)	7.5		12	20	40	50	55	75	100	125	180	220
Cooling water amount(T/H)	Cooling by air	2	4	4	8	12	12	20	24	36	48	48
Hydraulic plug(option)	✓											
Hydraulic plug separation corrugated tube(option)	✓											
SIP(option)	/	30	50	70	100	140	180	215	250	340	400	520
CIP(option)	40	84		116	286	318		450	482		578	642
Freeze-drying plate(option)	✓											
Diagram recording instrument	✓											
Weight of whole machine(kg)	700	1500	2500	3500	5000	6000	7000	10000	13000	17000	12000	25000
External size (L*W*H (m) )	1100*900*2100	2370*960*2520	3090*1320*2650	3280*1650*2930	4950*1850*2750	4950*1850*2950	5600*2700*3810	7600*2700*3810	7600*2700*4200	9000*2800*4200	10000*2800*4000	11000*2800*5000



## FZG VACUUM DRYER

### General Description:

Vacuum dry is to let the raw material to be dried at vacuum condition heating and drying .It uses vacuum pump to pump damp and make the working chamber form vacuum status. Therefore the dry speed of raw material is quickened and the energy is saved greatly. Vacuum dry is divided into static and dynamic dryer. Model FZG round vacuum dryer or Model FZG square vacuum dryer belongs to static dryer. Model SZG double cone rotating vacuum dryer belongs to dynamic dryer. When raw material is dried in static dryer, raw material is in static state and its shape can not destroy. Before drying, it can carry out the treatment of disinfection. When raw material is dried in dynamic dryer, raw material is turned over ceaselessly. So it can be dried better and more uniformly.

In the state of vacuum, the boiling point of raw material will be dropped. Therefore it is suitable for drying raw materials that are unstable or thermal sensitive. The vacuum dryer also has good air-tightness. So it is also suitable for drying raw materials that contain strong irritative and toxic gases and the solvent needs to recover.

The vacuum dryer has been widely used for pharmaceutical industry, chemical industry, foodstuff industry, dyestuff industry and so on. Air is in conformity with the requirements of GMP.



### Main Technical Parameters:

Type	FZG-10	FZG-15	FZG-20
Inner size of drying chamber(mm)	1500x1060x1220	1500x1400x1220	1500x1800x1220
Outer size of drying chamber (mm)	1924x1720x1513	1513x1924x2060	1924x2500x1513
Layers of baking support	5	8	10
Interval(mm)	122	122	122
Size of baking tray(mm)	460x640x45	460x640x45	460x640x45
Quantity of baking tray	20	32	60
Working pressure inside the pipe of baking support(MPa)	≤ 0.784		
Operation temperature of baking support,	35-150		
Degree of vacuum inside the chamber when operation in idle (MPa)	-0.1		
Under the condition of-0.1 Mpa and 110, evaporation rate of wate,(kg/m2.hr)	7.2		
When condensor is used, Model, and power of vacuum pump( kw)	2X-70A 5.5KW	2X-90A	
When condensor is not used, Model, and power of vacuum pump (kw)	SZ-2 4KW	SZ-2 5.5KW	
Weight of drying chamber (kg)	1400	2100	3200

## LPG CENTRIFUGAL SPRAY DRYER

### General Descriptions:

LPG series high-speed centrifuge atomizing drier is a special equipment and is suitable for drying emulsion suspending liquid, liquor and so on. Particularly it has unique advantage for drying polymers and resins; dyestuff and pigment; ceramics, glass; derust agent; pesticide; carbohydrate, dairy products; detergent and surfactant; fertilizer, organic compound, inorganic compound and so on.

functions to ensure the high quality of cleaning and the sterilization of the equipment.

### Features:

Air is turned into hot air through heater and enters into hot air distributor at the top of dry chamber and then enters into dry chamber and rotates in the state of helix. At the same time liquid of raw material is sent to centrifugal atomizer at the top of dry chamber through stepless variable screw pump. which liquid of raw material atomizes small drops. Air and liquid of raw material flow and contact each other. The moisture vaporizes rapidly. Liquid of raw material is dried into finished product in a short time. The finished product is discharged through the bottom cyclone separator of dryer and the wasted air is exhausted through fan.



The size of finished product is uniform and the flow and solubility are good. The purity and quality of product are good too. The operation is stable and simple. The regulation and control is very convenient. It is easy to realize automatic operation. The operation process is simplified and the operation environment is superior and can avoid powder dust during the period of operation.

### Main Technical Parameters:

Type	LPG-5	LPG-25	LPG-50	LPG-100	LPG-150	LPG-200~2000
Inter temperature(℃)	≤ 350					
Outer temperature(℃)	80~90					
Evaporated amount of moisture (kg/h)	5	25	50	100	150	200~2000
Revolution (rpm)	25000	22000	21500	18000		15000
Diameter of atomizing disc (mm)	50	120	120	120	150	180~340
Heat source	Electricity	Electricity	Steam+ electricity, oil, fuel, gas			Solved by user
Max. power of electric heater (kw)	9	45	60	81	99	/
Overall dimensions (m)	1.8X0.93X2.2	3X3.2X5.1	3.7X3.2X5.1	4.6X4.2X6	5.5X4.5X7	
Recovery rate of dry powder (%)	≥95					



## GK SEIRES DRY GRANULATOR

### Principle:

By using the crystallization water in the materials, the equipment can form the granules directly by the condensed water of raw material. Thus, simplifying the process, reducing the cost upgrading the quality, resultedly, making high-density granules, in accordance with GMP. It can apply to the request to chemistry, pharmacy, food and other powder-processing industry.



### Main Technical Parameter:

Model	Capacity(kg/h)	Feeding size(mm)	Working pressure(KN)	Motor power(KW)	Overall dimension(mm)	Weight(KG)
GK-70	20-60	0.4-6	198	7.15	1380*850*2200	1600
GK-120	60-200	0.4-6	294	13.75	1850*1100*2600	2000
GK-250	80-300	0.4-6	600	25	2080*1240*2920	3000

## KZL SERIES HIGH SPEED GRANULATOR

KZL Series High speed Granulator is widely used in pharmaceuticals, chemical industry, and foodstuffs with good stuffs and good effect. It's designed reasonably with filter net, shaft. It can crash block of material that is easy to smash. The specialized friction filter can grid solid particles on a big block according to centrifugal force principle. It can replace sway granule machine.



### Main Technical Parameters:

Type	80	120	160	200
Length (mm)	185	185	185	185
Diameter of filter hole (mm)	1-8			
Product capacity (kg/h)	50-100	100-200	150-300	200-400
Motor power (kw)	0.55	1.1	1.5	2.2
Running speed (r/min)	1500-3000	1000-1500	1000-1500	800-1000
Overall size (mm)	650x450x1000	1000x800x1200	1060x850x1350	1100x1000x1500

## FL SERIES FLUID-BED GRANULATOR

Fluid-bed Granulating is an organic combination between mechanical design and manu facture technology. Therefore hundreds of Granulation machines either for China or exported to USA, Japan, Indonesia. Iran is designed in accordance with the process of raw m-aterials.

Till now, we have manufactured decade's specifications and 150 difficult machines to meet different needs. These practical experiences will make customers get great benefit.



### Feature of Product:

Because of powder Granulating, the flow property is improved and the dust is reduced;

Because of powder Granulating, its solving property is improved;

The mixing, Granulating and drying can be completed in one step inside the machine;

The operation of equipment is safe because the antistatic filtering cloth is adapted;

The operation personnel can not be damaged if explosion is taken place because there is releasing hole;

The equipment has no dead corner. Therefore the loading and unloading are quick and light and clean. It can meet the requirements of GMP.

### Main Technical Parameter:

Item		Model								
		3A	5A	15A	30A	60A	120A	200A	300A	500A
Container	Volume(L)	12	22	45	100	220	420	670	1000	1500
	Diameter(mm)	300	400	550	700	1000	1200	1400	1600	1800
Capability	Min(KG/h)	1.5	4	10	15	30	80	100	150	250
	Max(Kg/h)	4.5	6	20	45	90	160	300	450	750
Fan	Capacity(m <sup>3</sup> /h)	1000	1200	1400	1800	3000	4500	6000	7000	8000
	Pressure(MM)	375	375	480	480	950	950	950	950	950
	H <sub>2</sub> O									
	Power(KW)	3	4	5.5	7.5	11	18.5	22	30	45
Steam expenditure(Kg/h)		15	23	42	70	141	211	282	366	451
Compressed air expenditure (m <sup>3</sup> /min)		0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.5	1.5
Weight of the main body(kg)		500	700	900	1000	1100	1500	1500	1800	2000
Steam pressure(Mpa)		0.3-0.6								
Temperature(°C)		Adjustable at the range from room temperature to 120°C								
Working time(min)		Decided in accordance with the properties of raw materials								
Field(%)		≥99								
Noise(dB)		≤75Db(When installation, main machine is separated from fan)								
Size (L×W×H)(m)		1.0×0.6 ×2.1	1.2×0.7 ×2.3	1.25×0.9 ×2.5	1.6×1.1 ×2.5	1.85×1.4 ×3	2.2×1.65 ×3.3	2.34×1.7 ×3.8	2.8×2.0 ×4.0	3×2.25 ×4.4



## YK SERIES OSCILLATING GRANULATOR

This machine is used for forming the required granules from moist power material, or for crushing dried block stock into granules in required size. Its main features are: the sieve can be removed and remounted easily; its tension is also adjustable. The rotor also can be removed and cleaned conveniently. The driving mechanism is totally enclosed in the machine body and its lubrication system makes the machine work smoothly. Type YK160 the speed of its rotor can be adjusted during operation, its surface is painted for universal usage. Type YK160A, a new type is designed in accordance with GMP standard; its surface is made of high quality stainless steel and looks nice. Especially the metal and stainless steel screen mesh improves the pellets quality.

### Main Technical Parameter:

Item	YK60	YK160
Diameter. of Rotor (mm)	60	160
Swing angle	360°	360°
Production Capacity(kg/h)	20-30	200-300
Motor Power(Kw)	0.55	2.2
Rotary speed (r/min)		46
Overall dimension(mm)	460*550*570	950*560*1240
Net Weight(Kg)	65	360



## HD SERIES MULTIDIRECTION MOVEMENT MIXER

### Application:

This new designed mixer is widely applied in pharmaceuticals foodstuffs, chemical, industrials and light industries to mix dry powder and granulator.

### Features:

1. Even mixing, higher barrel volume utilization than that the 40% of other mixers.
2. Special designed barrel with fine inside and outside polishing materials down load by self weight no sharp corner, no materials remained, easy to wash mixing within barred no environment pollution.
3. It doesn't produce for pollution of the environment, when mix the material into special.

### Main Technical Parameter:

Type	HD-100	HD-200	HD-400	HD-600	HD-800	HD-1000	HD-1200	HD-1500
Mixing Volume (L)	100	200	400	600	800	1000	1200	1500
Max.Loading Volume(L)	75	160	320	480	640	800	950	1200
Max.Loading Weight(g)	75	160	320	480	640	800	950	1200
Speed (r/min)	0-15	0-15	0-12	0-11	0-10	0-10	0-10	0-10
Motor power(KW)	1.5	2.2	4	5.5	7.5	7.5	11	15
Size(mm)	1200×1600 ×1500	1400×1800 ×1600	1700×2100 ×1850	2100×2400 ×2250	2200×2500 ×2300	2280×2600 ×2500	2400×2800 ×2550	2500×3100 ×2600
Weight(kg)	500	800	1200	1500	2000	2500	2800	3000



## CW SERIES MIXER



### Features:

This machine can rapidly mix such materials as easy clot and with certain water content, having fast mixing speed and good mixing effect. Inner of this machine is of new type sealing structure, during mixing, it is free of pollution, with simple structure and convenient operation and maintenance.

### Main Application:

Our company develops CW series stirring mixer under absorption of foreign new technology, based on W series double cone mixer, this machine adds stirring unit, which can be used for material mixing in industries as pharmacy, foodstuff, chemical industries as pharmacy, foodstuff, chemical industry and feedstuff etc.

### Main Technical Parameter:

Model	Barrel Volume (L)	Mixing motor	Stirring motor	Mixing rotary speed (rpm/min)	Stirring rotary speed(rpm/min)	Overall dimension
CW-50	50	1.1	0.75	20	60	1500*450*1200
CW-100	100	1.5	1.1	20	60	1550*550*1350
CW-200	200	2.2	1.1	20	60	1800*700*1500
CW-300	300	2.2	1.1	20	60	2100*760*1760
CW-500	500	3	2.2	20	60	2320*950*1920
CW-1000	1000	5.5	2.2	10	40	2450*1050*2500
CW-1500	1500	7.5	4	10	40	2900*1300*2700
CW-2000	2000	7.5	4	8	30	3000*1400*3100
CW-2500	2500	11	5.5	6	20	3600*1400*3200
CW-3000	3000	11	5.5	6	20	4000*1500*3500
CW-4000	4000	15	5.5	6	20	4800*1300*3800
CW-5000	5000	15	7.5	5	20	5400*1300*4000
CW-6000	6000	18.5	7.5	5	20	5650*1300*4380



## EYH SERIES TWO DIMENSIONAL MIXER



### Use & Feature:

This mixer is widely used in pharmaceutical, chemical, food, dye, chemical fertilizer and pesticide industries and especially suitable for mixing various solid materials with large volume (1000tp-10000litres).

The mixing barrel swings while rotating so that the materials in the barrel can be fully mixed. Because the discharge outlet of the barrel is out of the barrel centre line, the mixer features quick mixing and discharging, as well as high volume mixing capacity.

### Main Technical Parameter:

Model	Barrel volume	Max loading volume	Max loading weight	Mixing time	No.of rotation	No.of swing	rotation Motor power	swing Motor power	Overall dimension	Weight
EYH-50	50L	25L	25kg	0-99min	20r/min	11.5r/min	0.55kw	0.75kw	900*730*950mm	115kg
EYH-100	100L	50L	50kg	0-99min	20r/min	11.5r/min	0.75kw	1.1kw	1365*810*1150mm	190kg
EYH-150	150L	75L	75kg	0-99min	20r/min	11.5r/min	1.1kw	1.1kw	1650*950*1250mm	210kg
EYH-200	200L	100L	100kg	0-99min	20r/min	7.5r/min	1.1kw	1.1kw	1850*1000*1340mm	285kg
EYH-300	300L	150L	150kg	0-99min	17r/min	7.5r/min	1.1kw	1.1kw	1800*1050*1450mm	340kg
EYH-400	400L	200L	200kg	0-99min	15r/min	7.5r/min	1.1kw	1.1kw	1950*1140*1550mm	545kg
EYH-600	600L	300L	300kg	0-99min	15r/min	7.5r/min	1.1kw	1.5kw	1990*1300*1650mm	1150kg
EYH-800	800L	400L	400kg	0-99min	12r/min	7.5r/min	1.5kw	1.5kw	2100*1350*1710mm	1600kg
EYH-1000	1000L	500L	500kg	0-99min	12r/min	7.5r/min	1.5kw	2.2kw	2500*1500*1850mm	1700kg
EYH-1500	1500L	750L	750kg	0-99min	10r/min	7.5r/min	3kw	4kw	2630*1670*2050mm	2000kg
EYH-2000	2000L	1000L	1000kg	0-99min	8r/min	5r/min	4kw	4kw	2840*1780*2170mm	2600kg
EYH-3000	3000L	1500L	1500kg	0-99min	6r/min	5r/min	5.5kw	5.5kw	3200*2100*2550mm	3500kg
EYH-4000	4000L	2000L	2000kg	0-99min	5r/min	3.7r/min	7.5kw	11kw	3670*2560*2980mm	4100kg
EYH-6000	6000L	3000L	3000kg	0-99min	5r/min	3.7r/min	7.5kw	11kw	4500*3900*3500mm	6100kg
EYH-8000	8000L	4000L	4000kg	0-99min	4r/min	3.7r/min	11kw	15kw	5000*3300*4000mm	7900kg
EYH-10000	10000L	5000L	5000kg	0-99min	3r/min	3.7r/min	11kw	18.5kw	5300*3800*4400mm	9500kg

## CH SERIES TROUGH TYPED MIXER



### Main Application :

As a whole stainless horizontal tanker typed mixer, this machine is widely used for mixing of powdery or paste material in pharmaceutical chemical and foodstuff industries.

### Working Principle:

S type agitating paddle is rotated, by mechanical driving, which pushes the material to turn repeatedly and to mix uniformly. operating with electrical control, it can set mixing time to realize au-tomatic stop and electric discharge upon expiration, thus improving the mixing quality of each batch of material and realizing high homegeneous mixing.

### Main Technical Parameter:

Model	CH-150	CH-200	CH-300	CH-400	CH-500	CH-600
Working volume(L)	100	200	220	300	400	550
Speed of agitating paddle	24	24	24	24	24	24
Turning angle	<105	<105	<105	<105	<105	<105
Agitation motor(kw)	3	4	5.5	5.5	7.5	7.5
Discharging motor(kw)	0.75		1.1	1.5		2.2
Overall dimension(m)	1685*600*1000	1850*600*1000	2160*700*1250	2280*700*1250	2400*700*1250	2500*900*1350
Weight(kg)	650	720	750	780	820	850



## V-TYPE HIGH EFFICIENCY MIXER



### Application:

This machine has the following distinguishing features, no blind angle in the cylinders, no accumulation of materials, high speed, and short mixing time. With the body made of stainless steel and both inner and outer walls polished, the cylinders have elegant appearance. The charging of materials can be made either by manual operation or through vacuum suction. For discharging, rotating valves and rapid swivel heads are adopted. This mixer is applicable for mixing powdery or granular materials in pharmaceutical and other industries. It consists of two V-type cylinders of different altitudes, and through mechanical transmission the materials in these cylinders are made to move back and forth and turn over again and again, thereby achieving the goal of uniform mixing.

### Main Technical Parameter:

Model	Barrel volume	Max loading volume	Max loading weigh	Mixing time	Motor power	Barrel speed	Overall dimension	Weight
CH-50V	50L	20L	20kg	0-99min	0.75kw	20r/min	1250*450*1060mm	160kg
CH-100V	100L	40L	40kg	0-99min	1.1kw	15r/min	1620*500*1480mm	220kg
CH-200V	200L	80L	80kg	0-99min	1.1kw	15r/min	1800*600*1850mm	280kg
CH-300V	300L	120L	120kg	0-99min	1.1kw	12r/min	1900*650*1850mm	320kg
CH-500V	500L	200L	200kg	0-99min	2.2kw	12r/min	2500*800*2050mm	550kg
CH-1000V	1000L	400L	400kg	0-99min	4kw	10r/min	2850*1050*2050mm	950kg
CH-1500V	1500L	680L	680kg	0-99min	5.5kw	10r/min	3400*1100*3200mm	1200kg
CH-2500V	2500L	1200L	1200kg	0-99min	11kw	8r/min	3820*1100*3200mm	2040kg
CH-4000V	4000L	1800L	1800kg	0-99min	15kw	6r/min	4600*1300*3500mm	2800kg
CH-6000V	6000L	2500L	2500kg	0-99min	18.5kw	5r/min	5500*1300*4380mm	3200kg

## ZS SERIES HIGH EFFICIENCY OSCILATING SCREEN



### Feature:

This machine is used in pharmaceutical, chemical and food industries. It is ideal for raw material of mixture of powder, small particles and bigger granule and the continuous production process.

This machine is composed of vertical oscillating motor, screen bottom, mesh frame, screening chamber and rubber oscillation bowl and so on. This machine can be used for single step and multi-steps. It has many advantages such as compact structure, easy operation & maintenance, reliable running, low noise, high productivity, fine granule and universality and so on.

### Main Technical Parameter:

Type	ZS-400	ZS-600	ZS-800	ZS-1000	ZS-1200
Productivity(Kg/H)	40-500	200-1500	200-2500	500-3500	800-5000
Mesh Screen(mesh)	2-200				
Vibration frequency(times/min)	1500				
Power of the motor(kw)	0.4		0.75	1.1	1.5
Outer size(Two layers) in L*W*H (mm)	600*500*1100	800*700*1150	1100*950*1150	1200*1100*1250	1380*1300*1280
Net Weight(Kg)	200	250	300	380	450



## KCQ SERIES VERTICAL ULTRASONIC WASHING MACHINE



### Brief Introduction:

KCQ series vertical vial washing machine is the key machine type which our company is generalizing in recent years. The washing method is confirmed by our partners and users. It is widely used for washing of vials, ampoules, oral liquid bottles. Change part is easy to change.

### Characteristic:

Ultrasonic wave power can wash the wall of the vials thoroughly, cleaning effect is good and the speed can be adjustable by inverter.

Water and air come through separate 0.2um and 0.45um filter, clean degree is high.

"3 Water,3 air"alternated rinser

The washing wfi water can be used as recirculation water, energy-saving and environment-friendly.

Water and air pipe separate, avoid cross contamination

Water and air low pressure alarm, auto counting function

The big turntable for washing is finely fabricated, the running is table and bottle breakage ratio is low.

Suits bottles of different spec, easy to change the change part

Can be used as single machine or part of the production line

Can choose touch panel.

Fully comply with GMP requirements.

### Main Technical Parameter:

Type	KCQ30	KCQ60	KCQ80
Capacity	150~160(2~100mL)	300~320(2~20mL)	400~450(2~20ml)
Pure water pressure(Mpa)	0.15-0.35	0.15-0.35	0.15-0.35
Pure water consumption(m3/h)	0.3	0.6	0.8
Compressed air pressure (Mpa)	0.25~0.35	0.25-0.35	0.25-0.35
Compressed air consumption (m3/h)	20	45	60
Single machine noise(dB)	≤70		
Power(Kw)	17.05		
Power supply	380V/50Hz	380V/50Hz	380V/50Hz
Net weight(kg)	1500	2200	2500
Overall dimensions(mm)	1800×1800×1300	2100×1900×1300	2500×2250×1300

## GMS-B SERIES TUNNEL OVEN



### Brief Introduction:

GMS-B series tunnel oven is a hot air circulation tunnel oven our company developed to meet the need from the market by referring similar product abroad. It integrates high technology. This oven can reach the standard of sterilization and removing pyrogen after many years of pharmaceutical factory usage and test before leaving the factory. The heat distribution is average inside the box chamber.

### Production Capacity:

You can choose different width and length of net conveyor according to real production capacity requirements. Max. Production: over 600bts/min (7-10ml tubular vial)

### Main Technical Parameter:

GMS-500	7ml tubular vial	100~140 bts/min
GMS-700	7ml tubular vial	250~300 bts/min
GMS-900	7ml tubular vial	500~600 bts/min

### Working Principle:

This machine consists of 100-class protection section, preheating section, heating section, sterilization section, cooling section, net conveyor and electric control system.

It uses circulation air heated by electricity heaters to sterilize and remove pyrogen of the bottles after washing under the temperature of 350℃.The whole process is under the clean environment of hot circulatory air.

### Characteristic:

There are HEPA filter in preheating section, sterilization section, cooling section and the entire tunnel. Clean degree is high.

Hot air circulation. Has the advantage of energy-saving and good temperature homogeneity.

The heat distribution is  $\pm 5^{\circ}\text{C}$ .With frog validation connector. (DOP)

Stainless steel sheet covers the frame, good appearance. Oven box and net conveyor is made of S.S.304 or S.S.316L HEPA filter choose international brand, adopts built-in installation, good sealing effect. Choose LCD touch panel (TP) and controller (PLC) to control the heating and operation technical parameters precisely.With parameter separate display function, auto print record and error alarm and display function.

The air flow is controlled by electric pressure gauge, can auto balanced.

Adopts chain wheel to drive the net conveyor, avoid any conveyor deflection effect.

Complete 100 class protection, air inlet and air outlet with clean laminar flow protection, avoid outer air goes in the machine. Ensure working chamber under 100-class status.

Optional remote control function and fan ON DUTY function.

Optional net conveyor CIP system (ultrasonic wave cleaning).

With air cooling or 2 class water cooling.

The whole machine is easy to clean and without dead angle. The designing and fabrication fully comply with GMP regulations

Optional net conveyor CIP system (ultrasonic wave cleaning).

The whole machine is easy to clean and without dead angle.The designing and fabrication fully comply with GMP regulations.



## KFG2-A TYPE POWDER FILLING AND STOPPERING MACHINE



### Brief Introduction:

KFG2-A type powder filling machine is one kind of sterile powder filling machines which our company developed initially. Its volume is small, same direction in bottle inlet and bottle outlet. The filling and stoppering are conducted in the same graduator. With its compact structure, it is welcomed by customers with small production capacity and small room size. We have large number of customers home and abroad using this kind of powder filling machine.

### Characteristic:

Small volume, suitable for pharmaceutical companies with small production capacity and small room size.  
 Different type of filling auger meets requirements of different powder fluidity  
 Single chip system control the whole process, high automation degree  
 Can adjust the filling dosage without stopping the machine  
 Touch panel control can set the filling dosage without stopping the machine  
 Speed controlled by inverter  
 Falling bottle auto reject; no bottle, no filling; no stoppers, auto stops; insufficient stoppers alarm  
 Auto counting function  
 2 heads filling, 2 heads stoppering  
 CE certified, standard electric installation, safety guarantee on operation  
 Auto stop filling when filling auger touches filling nozzle and alarms  
 Easy to change the change part, filling dosage adjustable  
 Optional acrylic glass hood, laminar flow, sealed air outlet device  
 The whole machine is designed according to GMP requirements

### Main Technical Parameter:

Suitable vial specification	7-250ml	
Production capacity(Vial/min)	10ml	280-300
Source	380V/ 50Hz	
Power(Kw)	1.5	
Deviation	±2%	
Stoppers feeding ratio:	≥99.5%	
Vacuum degree equipped	-6×10 <sup>-2</sup> Mpa	
Vacuum quantity equipped	20m <sup>3</sup> /h	
Noise(dB)	≤70	
Weight (kg)	480	
Overall dimension (mm)	2620*1000*1750	

## KGL SERIES HIGH SPEED CAPPING MACHINE



### Brief Introduction:

KGL10 is a high speed capping machine, which our company has developed based on the former 8-head model through referring similar model in domestic market. It is suitable for the capping of round glass bottle and plastic bottles. It is used in pharmaceutical industry, light industry and chemical industry.

### Characteristic:

Built-in turn table, running is stable. Qualified capping ratio is high and the adjusting of the capping head is easy.  
 Bottle feeding, capping and bottle out is done automatically, can be used as single machine  
 Simple structure and appearance; easy operation, maintenance and cleaning.  
 Falling bottle auto rejected in the turntable, machine alarms when bottle falls in the track; no bottle, no cap-adding; machine auto stops when insufficient cap  
 Speed is adjusted by inverter  
 Easy to change the change part, aluminum cap oscillator and capping head can be operated by hand wheel.  
 Optional acrylic glass hood

### Main Technical Parameter:

Type	KGL-10		KGL-1	
Suitable vial specification	2-30ml		2-250ml	
Production capacity (pcs/min)	7ml	320-350	7ml	100-120
Broken ratio	≤0.5%		≤0.1%	
Capping ratio	≧99.5%		≧99.9%	
Source	220V/50Hz		380V/50Hz	
Power(Kw)	1.5		1.2	
Single noise(dB)	≤70			
Weight(Kg)	400		300	
Overall dimension(mm)	1540*1250*1520		1520*900*1400	



## AMPOULE PRODUCTION LINE



### Application:

The compact line is composed of KCQ series vertical ultrasonic washing machine, GMS-B circulating heating air sterilizing oven, and AGF series of horizontal ampoule filling & sealing machine, each one can be used stand alone, it apply for producing of 1-20ml ampoules. The compact line could complete procedures such as water filling, ultrasonic washing, three time of water washing (two time circulating water + one time of fresh water washing), three time air spraying, sterilizing, cooling, filling and sealing, protection gaseous filling (compressed air filling and nitrogen filling), the machine is a high speed ampoule production line that developed by our company and comply with GMP, by making effort for year after investigations on actual situations in china, with high-speed capacity in production and high qualified rate, it is convenient to service with low preparing costs especially suitable for water injection of animal medicines, PLC system is used on the machine for automatic control on the whole production process.

### Machine Line Consists of:

Vertical ultrasonic washing machine (KCQ)  
Circulating heating air sterilizing oven (GMS-B)  
Ampoule filling & sealing machine (AGF)

### Features:

Mechanical gripper are used on ampoule washing machine apply for 1-20ml ampoules  
The ampoule does not stop while washing process, the water and air nozzle following the ampoule and insert into ampoule, good quality washing effect, and water economy  
The circulating water tube and fine washing water tube is separated, there is no cross contamination, the washing process is validatable.  
Guiding sleeve for spraying nozzle is made of imported ceramic, wear-proof.  
The whole out-feeding section is adopted synchronous belts to transfer ampoules, stable and reliable  
Circulating heating air exert on the ampoule while in process, Good temperate distribution, energy economy.  
Set protection device to protect HEPA in case of power failure, more safe.  
The sterilizer could be attached with water cooling unit to decrease air consumption, and make the air pressure in the clean room steady.

## AGF SERIES VERTICAL AMPOULE FILLING & SEALING MACHINE



### Brief Description :

The machine is mainly used for filling and sealing ampoules in cleaning conditions in pharmacy factories. The machine is an 8 stations, 10 station or 12 station step transfer system, design in platform structure. Every step, it feed 8, 10, or 12 ampoules into each station, to complete the procedures such as ampoules feeding, filling nitrogen before filling medicine, medicine filling, filling nitrogen after filling medicine, preheating, sealing and so on, it apply for filling and sealing ampoules in cleaning conditions.

### Features:

standard type filling and sealing machine is adopt cam to control filling, each pump can be adjust independently, and all pumps also can be adjusted or together, advanced type of filling and sealing machine adopt servo system to control filling, with high accurate, all the pump could be adjusted individual or together by touch screen quickly, easily and accurately, besides the adjusted parameters can be saved in group way on the memory of the touch screen.  
Transferring component is changed from traditional chain transmission structure into denti-form synchronous belt; it is steady and less noise  
Reduce the quantity of ampoule stations and pitches between ampoules, and delivering bar length is almost 1/2 of original one, quite rigid and stable.  
Delivering bars' guide is changed from sliding way into rolling type, to make delivering bar moves more sensitive, flexible and rigid.  
New type of synchronization belt ampoule rotating mechanism, instead of traditional conical gear transmission, it is simple and avoided abrasions on original conical-gear structures.  
Detachable sealing box, have beautiful appearance, installation and commissioning is easy and quick

### Main Technical Parameter:

model	AGF8/1-20	AGF10/1-10	AGF12/1-5
application	1-20ml	1-5ml	
Production capacity( pcs/h)	1-2ml 16000-24000 5-10ml 10000-18000 20ml 5000-8000	16000-28000	18000-32000
Fuel consumption(CBM/h)	gas 0.4-0.6		
Fuel pressure (MPa)	0.1		
Oxygen consumption (CMB/h)	Oxygen 1.2-1.8		
Oxygen pressure(MPA)	0.1		
Overall dimension(L×W×H)mm	3447×1266×1326		
Weight(kg)	2500		
Power supply	380V/50Hz		
Power (KW)	2.4		



## SYD SEMI-AUTOMATIC AMPOULE INSPECTION MACHINE

SYD semi-automatic lamp Inspection Machine is the second artificial light to achieve further development of the invention of semi-automatic control in mecha-tronic servo motor. Inspection light moving from the half-plane transmission reverse integration, through the organic visual black and white double-sided magnifying glass, the unqualified Automatic tick bottles of mechanization drive.

### Technical Parameter:

Range: Ampoule.  
Light inspection method: Eyes.  
Picking bottles method: Automatic.  
Capacity: 50-100bottles/min.  
Source: 220V.50HZ.  
Packing size: 1200x700x1200mm.



## YZG AMPOULE GLAZE PRINTING MACHINE



This machine applies the high-precision orientation screen board print. Control system applies the programmed controller. Agglomeration subsection control temperature.

### Usage:

The machine can auto print on the 1ml, 2ml, 5ml, 10ml and 20ml and non-state standard ampoule color print and print word. It can meet the printing requirements for the home and abroad customers. The machine have high automatization, compact structure and simple operation. It is an ideal equipment for the ampoule process in the pharmaceutical factory and medical plastic factory.

### Main Technical Parameter:

Model	YZG-I	YZG-II
Ampoule Specification (ml)	1ml, 2ml, 5ml, 10ml, 20ml	1ml, 2ml, 5ml, 10ml, 20ml
Capacity (pcs/h)	3600	7500
Motor Power (kw)	18-24	18-24
Overall size (mm)	6000*600*1250	7000*600*1250
Weight (kg)	1600	1850

## KGZ ORAL LIQUID FILLING PRODUCTION LINE



### Description:

This production line is suitable for oral liquid filling of high capacity. This line is developed by our technical personnel based on the former model with imported advanced technology and material .Its structure is more reasonable and practical. It integrate GMP requirements into the designing of the machinery so that the machines are without contamination and easy to clean. It can ensure producing qualified drugs.

### Characteristic:

Outer feature: outer material is stainless steel, dull polished. The whole line is good in appearance, easy to clean. It complies with GMP regulations and can be suitable for several bottle specs.

### Structure Feature:

water filling→ultrasonic wave coarsely washing→circulation water→circulation water→compressed air→wfi→compressed air→compressed air→tunnel oven preheating→high temperature drying→cooling→bottle feeding→filling→cap→to the next process.

### Filling Dosage Feature:

No dripping, no forming, and no spitting.

### Running Feature:

Stable running, low noise, precise filling, low energy consumption, low bottle breakage ratio, high qualified product ratio.

### Performance Feature:

The whole line can single machine control or interlock control. Washing machine 3 water and 3 air ensure washing effect; Tunnel oven high temperature ensure drying bottles; piston filling pump ensure filling precision;10 head capping machine ensure sealing effect. Meet with GMP requirement.

### Technical Parameter:

Applied bottles specification: 5-100ml  
Power supply: 380V/50Hz  
Total power: 95Kw  
Filling error: ≤2%  
Whole line bottle breakage ratio: ≤1%  
Auto cap-adding ratio: ≥99.5%  
Production capacity: For 10ml bottle 18000 bottles/hour

### Machine Line Consists of:

Washing machine	(KCQ60)
Tunnel oven	(GMS-B)
Oral liquid filling machine	(KGJ-8)



## KGJ-8 ORAL LIQUID FILLING AND CAPPING MACHINE



### Brief Introduction:

KGJ-8 type is a oral liquid filling machine our company developed for the production of healthcare product customers. It adopts ceramic pump 8 head tracing filling.

### Working Principle:

This machine consists of bottle feeding net conveyor, big diameter graduator, filling system, aluminum cap oscillator, capping system, bottle outlet track and electric control system. It depends graduator to position the bottles, cam drives the filling needles to tracing fill. Filling process is finished in one time.

### Characteristic:

Ceramic pump, peristaltic pump or high precision peristaltic pump, with high rotary precision is high running speed and filling precision.

Filling, stoppering and capping monoblock machine. Space saving and simple structure. Good appearance and easy to clean.

Tracing positioning is precise, running is stable can fill bottles of different size

Touch panel operation and PLC control, high automation degree

No bottle no filling; auto stops when no caps.

10 head flexible ROPP cap screwing, qualified capping ratio is high.

With auto counting function

CE certified, standard electric installation, safety guarantee on operation.

Optional acrylic glass protection hood

The whole machine is designed according to GMP requirements.

### Technical Parameter:

Applied bottles specification: 10-30ml

Power supply: 380V/50Hz

Total power: 1.6Kw

Filling error:  $\leq 2\%$

Bottle breakage ratio:  $\leq 0.5\%$

Auto cap-adding ratio:  $\geq 99.5\%$

Single machine noise:  $\leq 70\text{dB}$

Weight: 860Kg

Overall dimension: 2850\*1240\*1550mm

Production capacity: For 10-30ml 120-200 bottles/min

## DSG2/80 EYE DROP PRODUCTION LINE



### Description:

The production capacity of this line is 100bts/min(10ml bottle as example) it is suitable for eye drop production of high capacity. This line is developed by our technical personnel with imported advanced technology and material. Its structure is more reasonable and practical. It integrates GMP requirements into the designing of the machinery so that the machines are without contamination and easy to clean. It can ensure producing qualified drugs.

### Machine Line Consists of:

Bottle arranger	(LP1)
Washing machine	(KCQ20)
Tunnel oven	(GMS-B)
Eye drop filling machine	(DSG2)
Light inspection machine	(DJ100)
Labeling machine	(LTB-A)

### Production Capacity:

(10ml as standard) 5800-6000(bts/Hr)

### Optional Configuration:

Touch panel: SIEMENS, Japan HAKKA

Filling pump: Belgium NEOCERAM, UK WATSON

Glass hood for laminar flow: Acrylic glass or tempered glass

HEPA filter: Sweden CAMFIL, USA AAF

Bearing: SKF, Japan SEKIO

Motor: ABB, Japan Oriental

Outer feature: outer material is stainless steel, dull polished. The whole line is good in appearance, easy to clean. It complies with gmp regulations and can be suitable for several bottle specs.

Structure feature: bottle arranging→water filling→compressed air→wfi→wfi→compressed air→compressed air→tunnel oven preheating→high temperature drying→cooling→bottle feeding→filling→stopper-adding→cap-adding→cap-sealing→labeling→to the next process

Filling dosage feature: no dripping, no forming and no spitting.

Performance feature: running is stable, noise is low, filling is precise, energy consumption is low, qualified product ratio is high. Performance feature: the whole line can single machine control or interlock control. Washing machine 3 water and 3 air ensure washing effect; tunnel oven high temperature ensure drying bottles; peristaltic filling pump ensure filling precision; cap-screwing machine ensure sealing effect; labeling machine pneumatic coding ensure labeling speed.

Comply with GMP requirements. Contact part is made of SS316L, silicone rubber or PTFE material which is easy to clean and without contamination



## DMH SERIES HIGH TEMPERATURE PURIFYING STERILIZING OVEN



### Usage and Brief Introduction:

1. DMH series high temperature purifying sterilizing ovens are applicable to the bacteria-killing, pyrogen-removing and drying sterilization of solid objects such as Schering bottles, ampoule bottles, aluminum caps and metal or glass vessels.
2. DMH series purifying split-door ovens are the products of a new generation which have been developed in recent years by our company and have all passed certification in hundreds of pharmaceutical enterprises in China. The control system of the equipment is advanced and sensitive. A batch of key components such as PLC programmable controller, man-machine interface touch screen, micro-manometer, automatic moisture-expelling valves, inflammable gas concentration tester and so on are all made in Japan, USA or Chinese Taiwan, thus providing a guarantee to the quality of the products. The perfect 100grade laminar flow purifying system conforms to the requirement of GMP norms.
3. DMH series products offer a choice of selection to the users. In terms of configuration and size, the product can be customized according to the usage, site, output and so on required by the users.

### Main Technical Parameter:

Type	DMH-1	DMH-2	DMH-3	DMH-4
Operating chamber dimensions(mm) (WxDxH)	600×500×750	800×800×1000	1000×1000×1200	1000×1200×1500
Outside dimensions(mm) (WxDxH)	1650×900×1750	1850×1200×1950	2050×1400×2150	2050×1600×2450
Heating power(KW)	9	15	22	28
Circulating blower power(KW)	1.1	2.2	3.0	4.0
Supplementary blower power(KW)	0.06	0.18	0.18	0.25
Moisture-expelling blower power(KW)	0.18	0.25	0.37	0.75
Designed temperature scope °C	Room temperature -300	Room temperature -300	Room temperature -300	Room temperature -300
Cleanliness grade	100grade	100grade	100grade	100grade
Circulating blower blowing rate(m3/h)	2540	2700	2900	3200

## AAG SERIES AMPOULE FILLING & SEALING MACHINE

### Description:

This machine is a new generation of the ampoule drawing, filling and sealing combined equipment for injections. It adopts the rectangular feeding instead of the traditional ampoule feeding methods. In such case, the feeding is steady with no easy broken ampoule. A modern clutch is mounted under the ampoule feed hopper. Therefore, the ampoule feeding can be stopped at any time while the machine is still running. So the ampoule lost can be reduced. In the part of stopping filling where changes electromagnetic switch into mechanical switch. It is reliable and durable. Bottle reverse and bottle arranging structure are used in the device of bottle outlet. It reduces the broken rate of the finished products of ampoules tremendously.



### Main Technical Parameter:

#### AAG-4:

Model	AAG4/1-2	AAG4/5-20	
Specification (ml)	1-2	5-10	20
Capacity (pcs/h)	7000-9000	6000-8000	4000
Power (kw)	0.55		
Fuel Consumption	Gas: 2-2.5M <sup>3</sup> /h LPG: 0.08-0.1MPa		
Combustion-Supporting Consumption	Oxygen: 0.7 M <sup>3</sup> /h 0.1 Mpa		
Outline Dimension (LxWxH)	1650*900*1500		
Machine Weight (kg)	400		
Power Supply	380V ~ 50Hz		

#### AAG-6:

Model	AAG6/1-2	AAG6/5-20
Specification (ml)	1-2	5-20
Capacity (pcs/h)	9000-12000	8000-8800
Power (kw)	0.55	
Fuel Consumption	Gas: 3-4M <sup>3</sup> /h LPG: 0.08-0.1 M <sup>3</sup> /h 0.7MPa	
Combustion-Supporting Consumption	Oxygen: 1 M <sup>3</sup> /h 0.1Mpa	
Outline Dimension (LxWxH)	1850*900*1500	
Machine Weight (kg)	450	
Power Supply	380V ~ 50Hz	



## KFG-2B SCREW POWDER FILLING, STOPPERING AND CAPPING MACHINE



### Application:

KFG-2B is our company developed sterile powder for injection into separate bottles and sealing equipment, due to its loading volume of accurate, powder consumption is low, capping a high pass rate. The machine uses microcomputer to set measurable, easy to use, easy to operate, it has a large number of users of domestic and exported to Southeast Asia and some developed countries. Machine simple operation, high degree of automation, and the demolition of convenient, easy to key parts cleaning, full compliance with GMP requirements.

### Feature:

Computer control of load, the amount of high precision equipment to regulate the large dose range. Non-stop can be set to adjust the amount of sub-installed equipment. Powder-packing-screw and the next mouth contact is automatically stopped and displayed under the powder.

Bottle regardless of lack of equipment and empty bottles automatic stopping device.

To adapt to the screw-cap plastic lid function.

Fixed torque Capping, Capping good quality and good sealing.

Frequency Control.

Automatically displays the counting function

According to user needs, can carry 100 laminar flow protection device.

### Main Technical Parameter:

Suitable vial specification	2-20ml,30-100ml,100-250ml	
Production capacity(Vial/min)	1g(7ml)	60-80
Source	380V/ 50Hz	
Power(Kw)	1.5	
Deviation	±2%	
Stoppers feeding ratio	≥99%	
Vacuum degree equipped (Mpa)	-6×10 <sup>-2</sup>	
Vacuum quantity equipped (m3/h)	14	
Noise (dB)	≤70	
Weight (kg)	880	
Overall dimension (mm)	2620×1000 ×1750	

## GF-60 SOFT TUBE FILLING AND SEALING MACHINE

### Features:

The machine can automatically orientate eye marks, filling, sealing, pressing date and cutting the end. This machine is widely used in daily cosmetic, medicine and food industries.

### Technical Parameters:

Production capacity	60 pcs/min(max)
Filling capacity	5-250ml/pc
Filling error	≤ ± 1%
Suitable diameter of soft tube	10-50mm
Suitable length of soft tube	50-240mm
Power of the main motor	1.1kw
Power for heat sealing	3kw+0.7kw(Air motor)
Working air pressure	0.4-0.6Mpa
Air displacement	1100L/min
Outer dimension (mm)	1950*1000*1800
Weight	850kg



## THG-100 AUTOMATIC LIQUID FILLING AND CAPPING MACHINE

Machine this department our company draw lessons from foreign advanced technology, a new generation that develops by oneself irritates installation. This machine adopts the piston to measure, collect the electro mechanics, pneumatic in an organic whole, Controlled by PLC, the structure is compact, designs rationally, pour into accurately, and operate the characteristic such as being reliable, work and with high efficiency, longer-lived steadily. Extensively suitable for pour into, can pour into various kinds of liquid, glue the thick body etc. It can used for various kinds of semi fluid, lotion, sauced material including particle, have a lot of kinds of pouring into amount at your choice.

### Other Characteristic:

- 1).It is that the stainless steel is made to contact with the supplies, totally accord with GMP standard;
- 2).Living and taking over fast, it is simple and swift to unpick and wash;
- 3).Person who pour into, irritate form to be speed convenient to be adjustable, change different bottles like specification, do not need to change the part, adjust it easily;
- 4).There is the leak protection device to pour into the head, does not have wire drawing, water clock to irritate the form definitely.

### Main Technical parameters:

Capacity:	20-50 pcs/min
Filling station:	4 heads
Capping head:	one
Applied for:	30-150ml
Filling tolerance:	±1%
Qualified Cap putting :	≥98%
Qualified Capping:	≥98%
Speed control:	By inverter
Power supply:	380V 50Hz/60Hz
Total power:	1.8KW
Outside dimension:	3000×900×1700mm





## AUTOMATIC PURE WATER TREATMENT EQUIPMENT



Purified water preparation system can effect pharmaceutical water directly, it submits to GMP critical system .

RO equipment are designed for application in a wide range of purified water preparation of pharmaceutical plant and core equipment .

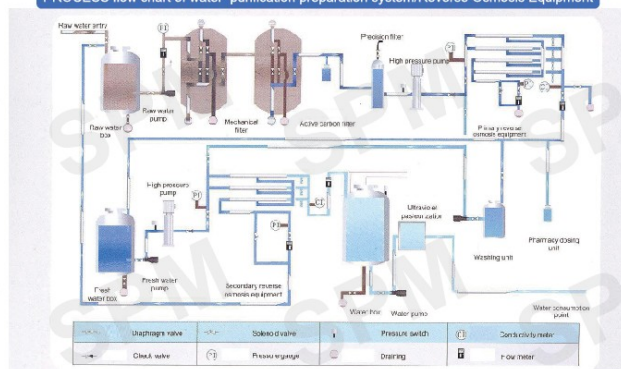
Reverse osmosis is also called opposite osmosis relative to "osmosis".

Osmosis is a process of water from the dilute solution flows to concentrate through the semipermeable membrane automatically .

For the reverse osmosis , in the action of applied pressure ,water from the concentrate flows to the dilute solution , it is un-optionala .

EDI(Electro-de-ionization) device belongs to precision water system which is generally coordinated with RO, it is also called continuous electro deionization , it brings electrodialysis and ion exchange technology together as one, By the action of electric field , ion directional movement then removes the salts . The working of EDI also a process of resin rebirth continuously ,EDI device is after RO system . The water inlet requirement of EDI device is that the resistivity is 0.025-0.5MΩ·CM, the RO device can fully satisfy the demands. The EDI device can produce the ultra pure water which the resistivity reaches 15MΩ·CM.

PROCESS flow chart of water purification preparation system/Reverse Osmosis Equipment



## LD SERIES MULTI-EFFECT DISTILLED WATER MACHINE

### Description

The distilled water machines of our factory are multi-effect distilled water machines with vapor-heating method. Through scientific calculation, the quantity of heat is utilized many times circularly, so they have high thermal efficiency. Compared with old type, single-effect distilled water equipment, the multi-effect distilled water machines can save more than two thirds of energy. They are presently the pioneer and the best energy saving distilled water equipment in China. The distilled water produced from there machines is of stable quality, high purity and in conformity with the Chinese pharmacopoeia. It can be used as injection water.

The multi-effect distilled water machines have following models according to their capacity.

LD200-3, LD500-4, LD1000-4, LD2000-5, LD3000-6 and so on.

### Application

The distilled water produced from our distilled water machines is widely used. In addition to preparing injections and infusions in pharmaceutical industry, it can also be used to clean and sterilize sterile instruments, prepare raw materials and standard samples used in chemical laboratories, clean electronic components and culture improved varieties in agricultural production, etc.

The quality of the distilled water from there machines is guaranteed in conformity with the requirements for Chinese Pharmacopoeia. On the promise that the electrical conductivity of feeding water is not more than 5μ s/cm, that of distilled water is less than 1μ s/m, Technical data of varied distilled water machines of our factory are as follows.



### LD200-3 Multi-effect Distilled Water Machine:

Vapor Pressure (Mpa)	0.3	0.4	0.5	0.6	0.7	0.8
Capacity (kg/h)	200	255	305	355	410	440
Vapor Consumption (kg/h)	85	110	135	160	185	205
Consumption of Feeding Water (kg/h 15 °C)	225	285	340	400	455	490
Consumption of Cooling water(kg/h 15°C)	260	340	415	195	580	630
Overall Dimensions and Weight	(L*W*H) mm			Weight (kg)		
Dimension of Chief Motor (mm)	1300*900*2480			500		
Dimension of Feeding Water Reservoir (mm)	950*640*805			91		
Dimension of Cooling Water Reservoir (mm)	950*640*805			86		

### LD500-4 Multi-effect Distilled Water Machine:

Vapor Pressure (Mpa)	0.3	0.4	0.5	0.6	0.7	0.8
Capacity (kg/h)	510	665	765	850	925	1000
Vapor Consumption (kg/h)	160	208	247	293	330	370
Consumption of Feeding Water (kg/h 15°C)	585	765	880	980	1065	1150
Consumption of Cooling water	425	535	646	818	937	1081
Overall Dimensions and Weight	L*W*H			Weight		
Dimension of Chief Motor (mm)	1495*900*3280			950		
Dimension of Feeding Water Reservoir (mm)	950*640*805			91		
Dimension of Cooling Water Reservoir (mm)	950*640*805			96		



#### LD1000-4 Multi-Effect Distilled Water Machine:

Vapor Pressure (Mpa)	0.3	0.4	0.5	0.6	0.7	0.8
Capacity (kg/h)	1000	1270	1530	1785	2040	2195
Vapor Consumption (kg/h)	325	420	510	605	695	755
Consumption of Feeding Water (kg/h 15°C)	1120	1425	1710	1995	2285	2460
Consumption of Cooling water(kg/h 15°C)	645	850	1050	1255	1465	1570
Overall Dimensions and Weight	L*W*H			Weight		
Dimension of Chief Motor (mm)	2260*1060*4105			2060		
Dimension of Feeding Water Reservoir (mm)	1150*720*1130			100		
Dimension of Cooling Water Reservoir (mm)	1150*720*1130			90		

#### LD2000-5 Multi-effect Distilled Water Machine:

Vapor Pressure (Mpa)	0.3	0.4	0.5	0.6	0.7	0.8
Capacity (kg/h)	2000	2540	3060	3560	4040	4540
Vapor Consumption (kg/h)	510	659	805	949	1090	1238
Consumption of Feeding Water (kg/h 15°C)	2210	2870	3381	3934	4464	5017
Consumption of Cooling water(kg/h 15°C)	687	918	1145	1369	1588	1817
Overall Dimensions and Weight	(L*W*H) mm			Weight (kg)		
Dimension of Chief Motor (mm)	3545*1200*4360			4500		
Dimension of Feeding Water Reservoir (mm)	950*640*1030			150		
Dimension of Cooling Water Reservoir (mm)	950*640*888			100		

#### LD3000-6 Multi-effect Distilled Water Machine:

Vapor Pressure (Mpa)	0.3	0.4	0.5	0.6	0.7	0.8
Capacity (kg/h)	3000	3800	4600	5340	6000	6800
Vapor Consumption (kg/h)	685	810	980	1200	1370	1560
Consumption of Feeding Water (kg/h 15°C)	3315	4210	5050	5900	6690	7520
Consumption of Cooling water(kg/h 15°C)	940	1300	1680	1980	2300	2700
Overall Dimensions and Weight	(L*W*H) mm			Weight (kg)		
Dimension of Chief Motor (mm)	4749*1250*4735			5700		
Dimension of Feeding Water Reservoir (mm)	1050*785*900			120		
Dimension of Cooling Water Reservoir (mm)	1050*785*900			120		

### LCZ SERIES PURE STEAM GENERATOR



LCZ series purity steam generator, both the production of "saturation" pure steam, while the production of "over-heating" pure steam, is not only the pharmaceutical, health care products factory, hospital, chemical and biological research and other departments can not be a lack of disinfection, sterilization of high-purity steam production of special equipment, but also a washing machine plug, wet disinfection and sterilization of the best cabinet manufacturers equipment.

At present, the pure steam generator at home and abroad can only output "saturation" pure steam, the long-range (for example, more than 100m) sterilization of the disinfection of equipment, due to arrive at the use of steam has been generated when a large amount of condensation water, has not are pure steam, but water and steam saturation of the mixed fluid, so the effect of very poor disinfection sterilization, in particular, more than 300 meters distance disinfection by steam sterilization equipment, there is simply not the purpose of disinfection sterilization.

This product is equipped with "overheating" pure steam generator, can be output "overheating" pure steam, on the long-distance sterile equipment, the "overheating" pure steam before reaching the point-of-use, flow resistance and heat dissipation effect of the steam pipe may be the elimination of "overheating" pure steam "superheat", without condensation of water into the "saturation" pure steam, so (150-2000m) distance of the points with steam sterilization disinfection, is still short, the advantages of good effect, the advantages are all at home and abroad do not have pure steam generator, and it is the patented product innovation. Sterile equipment for long-distance, the distance should be based on an appropriate increase in net increase in steam "superheat" in order to ensure pure steam of "overheating" of maintaining longer, and thus arrive at the use of steam to ensure purity point.

#### Main Technical Parameter:

Type	Production capacity (Kg)	Heating steam exhaust(Kg)	Water exhaust (Kg)	Overall dimension(mm)	Weight (Kg)
LCZ200	200	325	585	1000×700×2100	370
LCZ500	500	1100	1120	1100×750×3000	550
LCZ1000	1000	1770	1800	1400×950×3700	950
LCZ2000	2000	3300	3400	1500×1150×4000	1300



## AUTOMATIC TABLET AND CAPSULE PACKING LINE



Multi-function design, following the technologic link required by traditional techniques to ensure the continuity of working process

### Features:

- High speed bottle sorting and feeding.
- Accuracy of counting
- Accuracy desiccant pouch inserting.
- Accuracy cotton strip inserting
- Good performance of capping
- Good performance of aluminum foil sealing
- High speed of labeling and code printing

### The Consist of Production Line:

Bottle automatic arranging machine	(SLP-200)
Counting & Filling Machine	(GS-16)
Cotton inserting machine	(CI-200)
Desiccant filling machine	(DI-200)
High speed capping machine	(GX-200)
Aluminum foil induction sealing machine	(JF-2)
Labeling machine	(LTB-A)

## BOTTLE AUTOMATIC ARRANGING MACHINE MODEL SLP-200

SLP200 sorts round, rectangular and square bottles automatically and places the containers on a conveyor at speeds up to 100 cpm. This unscrambler adopts electronic timing system. The operation is easy and stable. It is useful widely in the pharmacy, food & beverage, cosmetic & personal care industries.

### Key Features:

- Speeds up to 100 cpm
- Handles plastic round, rectangular or square bottles
- No-tool changeover
- Operation stable and lower noise
- full-set protecting device keep operation steady and reliable
- Stainless steel frames and cabinets

### Specifications:

Sorting Speed 40 100 bottles/minute  
 Bottle size: customized based on the requirements  
 Dimensions 1000mm×1100mm×1300 mm (Length × Width × Height)  
 Weight: 280kg  
 Electrical Requirements:  
 Power:500W, Voltage: 220V, 50-60HZ  
 Working direction: Left → Right (or Right → Left)



## COUNTING & FILLING MACHINE MODEL GS-16



### Brief Introduction.

This high-speed tablet and capsule counter combines 16-channel counting heads over a dual-track conveyor on a single frame to double the productivity without doubling the floor space. It is suitable for various kinds of tablets, caplets and capsules with different shapes, sizes and properties.

### Key Features of Counting Machine:

- Speeds up to 60 cpm based on 100-count bottles with vibration system
- Counter error is less than 1‰
- Weight inspector system (Optional system)
- Stable operation and low noise
- Bottles are smoothly conveyed by dual-track conveyor
- Full-set protecting device for stable operation and high security
- Adopt touch screen and control system for easy control
- Simple controls
- On-screen trouble description
- Stainless steel frame

### Applcation:

- Nutraceuticals
- Pharmaceuticals
- Food & beverage

### Specifications of Counting Machine:

Counting & Filling speed: 3000-6000 pieces/minute based on 20-999 pieces/bottle  
 Bottleneck size: ≥Φ25 mm (customized based on the requirements)  
 Bottle size: Φ35 mm-60 mm (customized based on the requirements)  
 Dimensions: 1800mm×1420mm×1600 mm (Length × Width × Height)  
 Weight: 280kg  
 Electrical requirements: Power:500W, Voltage: 220v, Frequency: 50-60HZ(Optional)  
 Working direction: Left → Right (or Right → Left)



## COTTON INSERTING MACHINE MODEL CI-200

### Brief Introduction:

CI200 is economical and easy to operate. The machine can automatically cut off the belted cotton and insert it into the container accurately and quickly. This fully automatic cottoner inserts a preset length of cotton, rayon or polyester coil into bottles at speeds up to 80 cpm.

### Key Features:

Insert speed up to 80 CPM: Heavy duty construction  
Tearing device: PLC and HMI controls

### Specifications:

Insert Speed: 40-80 bottles/minutes  
Dimensions: 1600mm×600mm×1500 mm ( L × W × H)  
Weight: 250kg  
Electrical Requirements:  
Power: 1500W, Voltage: 220v, Frequency: 50-60HZ (Optional)  
Working direction: Left → Right (or Right → Left)

### Application:

Nutraceuticals  
Pharmaceuticals



## DESICCANT FILLING MACHINE MODEL DI-200

### Brief Introduction:

DI200 is economical and easy to operate. The machine can automatically cut off the belted desiccant and insert it into the container accurately and quickly. This fully automatic machine inserts a preset length of desiccant coil into bottles at speeds up to 80 cpm.

### Key Features:

Insert speed up to 80 CPM: Heavy duty construction  
Tearing device: PLC and HMI controls

### Specifications:

Insert Speed: 40-80 bottles/minutes  
Dimensions: 1600mm×600mm×1500 mm ( Length × Width × Height )  
Weight: 250kg  
Electrical Requirements:  
Power: 1500W, Voltage: 220v, Frequency: 50-60HZ (Optional)  
Working direction: Left → Right (or Right → Left)

### Application:

Nutraceuticals  
Pharmaceuticals



## HIGH SPEED CAPPING MACHINE MODEL GX-200

### Brief Introduction :

This versatile in-line capper is able to connected a whole packing line. It offers a quick and easy changeover to maximize production flexibility. The tightening discs are gentle which will not damage caps.

### Key Features:

Capping speed up to 200 CPM  
One button to adjust height  
Applicable to various caps and bottles  
Auto stop and alarm if no cap  
Stainless frame  
3 sets of tightening discs  
No-tool adjustment  
Various types of cap feeders are available for option

### Technical Specifications :

Capping speed: 50-200 bottles/minute  
Bottles size: Φ30~120 mm, height (can be customized)  
Dimensions: 1800mm×850mm×1850 mm (Length × Width × Height)  
Weight: 450kg  
Electrical Requirements: Power: 1000W, Voltage: 220v, Frequency: 50-60HZ (optional)



## ALUMINUM FOIL INDUCTION SEALING MACHINE MODEL JF-2

### Brief Introduction:

JF-2 is a high speed machine, developed based on the former 8-head model through referring similar model in domestic market. It is suitable for the round glass bottle and plastic bottles. It is used in pharmaceutical industry, light industry and chemical industry.

### Key Features:

Sealing speed up to 120 CPM  
Heavy duty construction  
Auto stop and alarm when lack water  
Stable operation, less noise  
Automatically reject caps when there is no aluminum foil

### Technical Specifications:

Sealing Speed: 50-120cpm (based on the diameter of bottleneck)  
Diameter of bottleneck: Φ20-80mm  
Dimensions: 1600mm×600mm×1300 mm (Length × Width × Height)  
Weight: 180kg  
Electrical Requirements: Power: 2000w, Voltage: 220v, Frequency: 50-60HZ (Optional)  
Working direction: Left Right (or Right Left)





## LABELING MACHINE MOBEL LTB-A



### Brief Introduction:

Labeling speed up to 200 CPM

The labeler applies sticky roller to label on small round bottles. In the process of vertical bottle feeding, labels are torn off consecutively from the labeling roll and stuck on the fixed position of the bottle body. It is a modern machine integrating mechanism and electricity with good and reliable working property.

The label has the advantages of cleaning, non-mouldness, elegance, durability, and high efficiency. It's widely used in the fields of medicine, food stuff, stationery, cosmetics, light industry, chemical industry, etc. The machine can stick label on all types of circular stuff with great adaptability.

### Main Characteristics:

Driven by bi-motors adjusting speed respectively.

Controlled by photo-electricity with advanced step motor, it can lock itself and it has the properties of reliable positioning and high sensitivity.

PLC is from famous domestic supplier. It's easy and prompt to maintain.

A hot code printer can be equipped based on the requirement and the printing is firm and legible.

### Main Technical Parameter:

Production Capacity: 60~80 bottles/Min

(According to the diameter of bottle mouse and the length of label)

outside diameter of bottles: 30- 120mm

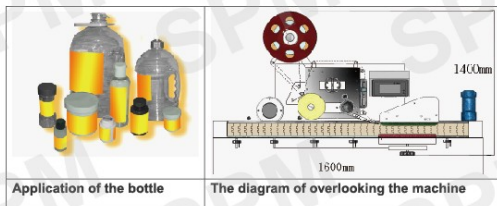
height:(can be customized based on the requirements)

Total Power: 400W

Voltage: 220V 50Hz/60Hz

Overall dimension (mm): 1600\*700\*1100mm

Total Weight: 145kg



## DPH-250 HIGH-SPEED BLISTER PACKAGING MACHINE



### Brief Introduction:

It is a kind of high-speed blister and standard packaging machine that with higher science and technology. It has gained two advanced patented technologies (Patent NO. is 200620106214.8&200620106215.2). The machine has been appraised as the provincial science and technology accomplishments. Its punch frequency is higher and its capacity is large. This model has more efficiency and lower cost, which provides the new choice for packaging in pharmaceutical industry.

### Feature:

1 PLC programmable controller, stepless frequency inverter, man-machine interface to operation, high automation.

2 Flat plate normal pressure to form, low temperature for forming(120 C ), blister with homogenous hardness, roll mash sealing, improve the sealing speed.

3 Cross punching without waste material, it is the packaging equipment with higher science and technology at present.

4 It can change the number of molding and stamping frequency ratio to meet the specifications of various drugs version of the production requirements. (Forming such as a vertical version of the three, with the number of molding blanking ratio of the number of a vertical baffle molding to 4, Molding is the number and frequency of blanking the ratio of 1:4 )

### Main Technical Parameters:

Punch Frequency (Times/min)	60-160
Capacity (Blister/h)	28800 (According To The Standard Plate 80×57mm Can Calculate The Max Capacity)
	9 KW 380V/220V 50Hz
Main motor power (kw)	1.5
Package materials (mm)	PVC 250×0.25 PTP 250×0.02
Packing maximum diameter (mm)	PTP Φ280 PVC Φ400
Maximum forming areas (mm)	240×240×12
Forming Traction Of Stroke (mm)	100-250
Punching Traction Of Stroke (mm)	20-100
Water consumption (L/Min)	3.2
Gas consumption(L/Min)	300
Overall dimension (mm)	2600×850×1780
Weight (Kg)	2000



## DPB-80 FLAT PLATE AUTO BLISTER PACKAGING MACHINE



### Brief Introduction:

DPB-80 Small Auto Blister Packing Machine is specially designed for hospital dosage room, laboratory institute, health care product, middle-small pharmacy factory, and featured by compact machine body, easy operation, stroke adjustable, long durability etc. It can protect the material from steam or dust, improve product packing degree, and increase the additional value. The machine is used to produce small quality and many kinds of products.

### Features

1. Adopted advanced high-power transmission device, main transmission shaft driven by chains. Avoid the noise and error by gear.
2. Imported electric parts for control system. Or install second feeder for lacking capsule and capsule inspecting device reject empty blister.
3. PVC forming, capsule feeding, heat sealing in one segment;
4. Adopted photoelectric system, PVC, PTP, ALU. Automatically feeding, waste material collecting. Ensure the multi units work steadily.
5. (Optional)-Use photoelectric inspecting system, equipped with advanced step motor for traveling. Graphic version printing, optimize the packaging.
6. This machine is suitable for Capsule, Tablet, Sugar-coating pill, Gelatin capsule, injection, and other medical instrument, food, electronics.

### Main Technical Parametes :

Cutting Frequency (Times/min)	20-40
Capacity(Blister/h)	2400 (According To Standard Plate80×57 Can Calculate The Max Capacity)
Max forming area and depth(mm)	80×100×26 (Standard 70×90×14)
Stroke (mm)	20-100 (Can Be Manufactured As User's Requirements)
Air Pressure(Mpa)	0.4-0.6
Standard Plate (mm)	80×57 (Can Be Manufactured As User's Requirements)
Total Power	380V/220V 50Hz 1.8kw
Main motor power (kw)	0.75
PVC hard pieces(mm)	0.15-0.5×80
PTP Aluminum Foil (mm)	0.02-0.035×80
Dialysis Paper (mm)	50-100g×80
Mould Cooling	Tap water or recycle water
Overall Dimensions (mm)	1400×460×950 (L×W×H)
Weight (Kg)	450

## DPB140 FLAT PLATE AUTOMATIC BLISTER PACKAGING MACHINE



### Brief Introduction:

This machine is newest and high technology designed for middle and small scale pharmaceutical, healthcare companies and hospitals. It is adopted micro-computer control, frequency converter, touch panel operation. It can automatically finish the processed of feeding, molding, heat-sealing, impressing, stamping and so on. It is the ideal packaging equipment convenience operation, full purpose function. The product passed the provincial science and technology appraisal.

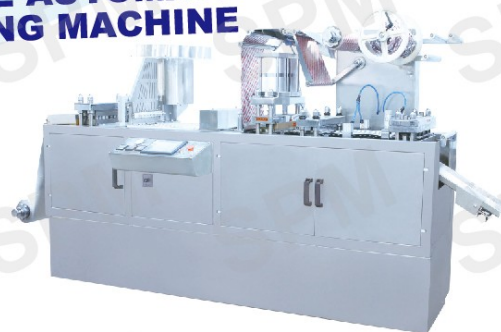
1. This machine adopts advanced high-power transmission device, main transmission shaft driven by chains. Avoid the noise and error by gear.
2. Imported electric parts for control system. Or install second feeder for lacking capsule and capsule inspecting device reject empty blister.
3. PVC forming, capsule feeding, heat sealing in one segment;
4. This machine adopts photoelectric system, it can automatically feeding and eliminate waste material, it can ensure the multi units work steadily.
5. (Optional)-Use photoelectric inspecting system equipped with advanced step motor for traveling, graphic version printing, optimize the packaging.
6. This machine is suitable for Capsule, Tablet, Sugar-coating pill, Gelatin capsule, injection, and other medical instrument, food, electronics.

### Main Technical Parametes :

Punch Frequency (Times/min)	6-50
Capacity (Blister/h)	28800 (According To The Standard Plate 80×57mm Can Calculate The Max Capacity)
Power	9 KW 380V/220V 50Hz
Main motor power (kw)	1.5
Package materials (mm)	PVC 250×0.25 PTP 250×0.02
Packing maximum diameter (mm)	PTP Φ280mm PVC Φ400mm
Maximum forming areas (mm)	240×240×12
Forming Traction Of Stroke (mm)	100-250
Punching Traction Of Stroke (mm)	20-100
Water consumption (L/Min)	3.2
Gas consumption(L/Min)	300
Overall dimension (mm)	2600×850×1780
Weight (Kg)	2000



## DPB-250B FLAT PLATE AUTOMATIC BLISTER PACKAGING MACHINE



### Brief Introduction:

This machine is newest and high technology designed. It is suitable for packaging capsules, tablets, pills, chocolates, butter, biscuits, perfume, essence, facemasks etc with AL/PL, PL/PL materials. It is equipped with a micro-computer control system and frequency converter, with characterized by higher automation and easy operation. It is popular equipment for the foodstuff and cosmetics, particularly for those who are to make their own career.

### FEATURES:

- 1). The distance can be adjusted freely in the same flat surface for forming, heat-sealing, perforation, punching parts etc. It is suitable for various sizes of foodstuff packaging, and it has high precision and good Suitability.
- 2). Adjustable stroke, automatic feeding, register heating, positive pressure forming, up and down net web, cylinder heat-sealing, printing batch number with automatic perforation, mechanic dragging, easy operation, stable running.
- 3). It is adopted with imported gear reducer with lower noise and long life.
- 4). Correct location of die pressure plate, convenience of replacement.
- 5). Combination mechanism, convenient to assemble and disassemble, easy maintenance.
- 6). Equipped with temperature reserve chocolate feeder, it can ensure the chocolate charged smoothly, freely and accurately.

Notes: 1. It can be added register sealing device with cursor trace

### Main Technical Parameter:

Cutting Time(t/min)	Al-AL 6-25、Al-plastic 6-50、Paper-plastic 6-50
Max Production Capacity (ten thousand pics/h)	Al-AL ≤11、Al-plastic ≤23
Max Forming Area And Depth(mm)	Al-AL 240×150×15、Al-plastic 240×150×26
Stroke(mm)	40-160 (Can Be Manufactured As User's Requirements)
Standard Plate (mm)	80×57 (Can Be Manufactured As User's Requirements)
Air Pressure(Mpa)	0.4-0.6
Air Supply	≥0.3m <sup>3</sup> /min
Total Power	380V/220V 50Hz 6.2kw
Main Motor Power(KW)	1.5
Forming Aluminum(mm)	0.10-0.15×250
PVC Hard Pieces (mm)	0.15-0.5×250
PTP Aluminum Foil(mm)	0.02-0.035×250
Dialysis Paper (mm)	50-100g×250
Mould Cooling	Tap Water Or Circulating Water
Overall Dimensions(mm)	3000×730×1600 (L×W×H)
Weight(kg)	1600

## DPB420 MULTIFUNCTIONAL SOFT/HARD BLISTER PACKAGING MACHINE



### Brief Introduction:

Our DPB-420 flat plate soft (hard) plastic blister packing machine is the latest newly soft (hard) packing machine at home and used widely in the packing of medical apparatus (syringe needle, injector), Chinese and Western medicine, electron unit, chemical and industrial product, foodstuff, as well as sensitive anti-pollution materials. It can synchronously complete membrane or hard heating plate, negative pressure and positive pressure to form simultaneously, filling, plate moiré sealing, batch number printed, vertical & and cross cutting as well as finished product full period.

It adopts PLC controlled program control, man-machine board to operate; it belongs to high automation of Mechanic-electronics product. Accord with GMP standard, it can be used to replace imported product in the same field.

### Features:

- It is adopted with step motor and chains to make up of draw device, adjustable stroke.
- Cursor tracking the plate device automatically to ensure packing design with fixed location.
- PLC controlling to make typewriter print number, date, letter programmed by man-machine board self-definition.
- The position of typing and indentation can be adjusted freely.
- Easy to replace die because of fixed position for die nails.

### Main Technical Parameter:

Package scope:	Suitable for package of many sensitive anti-pollution materials and medical apparatus and instruments, Chinese and western medicine, electron, chemical product and foodstuff.
Capability(times/minute)	6-16 (1) 20 syringe needles/time (2) 1ml 11 injectors/time, 2.5ml 10 injectors/time, 5ml 9 injectors/time, 10ml 8 injectors/time
Packing Frequency:	6-16 times / min
Package Materials:	Paper-plastic, Aluminum-plastic, Plastic-plastic and other Compound Film suitable for heat sealing(or the hard plastic less than 0.2mm), width of upper film is 400mm and the lower is 420mm.
Maximum inner dimension(mm)	375×154×50mm (L×W×D)
Out Dimensions(mm):	5000×980×1860mm (L×W×H)
Power(kw):	9.5
Weight(kg):	1700



## SLB-150 AND 220 AUTOMATIC DOUBLE ALUMINUM PACKAGING MACHINE



### Brief Introduction:

This machine is suitable for the automatic Alu-Alu foil sealing of capsules and tablets or balls for the pharmaceuticals, chemistry and food-staff industry. The package can be sealed and can avoid the light, and also can seal the capsules by double plastic packaging. Vibration feeding and fracture screening, numbering, vertical and horizontal pressing, cutting the extra sides and printing the lot number can be made fully automatic. The machine is in conformity with the standards of the GMP.

### Main Technical Parameter:

Model	SLB150	SLB220
Speed of drum (cuttings/min)	7~15 (stepless)	7~15 (stepless)
Capacity (10thous pieces/h)	2~6	3~8.5
Max Packing dimensions(mm)	150Manufact ured as user's requirements	220
PVC for medicine(mm)	0.05-0.1×150	220×0.05~0.1
AL-plastic combined film (mm)	0.08×150	220×0.08
Hole dia. of reel(mm)	Φ40-45	Φ70~75
Electrothermal power	1kw×2	1 Kw×2
Main motor (kw)	0.55	0.55
Air pressure (Mpa)	0.4~0.6, ≥0.1m3/min	0.4~0.6, ≥0.1m3/min
Overall dimensions (mm)	1450×600×1670(L×W×H)	1450x670x1670(LxWxH)
Weight(kg)	600	800

## BFS-120 MICRO AUTOMATIC FILLING & SEALING MACHINE



### Main Features:

1. Controlled by PLC, the frequency conversion in finitely variable speeds.
2. All 6 processes from spreading roll, ampoule forming, filling, sealing the end, printing serial numbers, cutting the end, cutting apart, controlled by programming.
3. The computer human interface has simple and clear operation.
4. The filling head doesn't drop, leak, rise in bubbled and spill over.
5. All are made of high-quality stainless steel, accord with the standard GMP.
6. Mostly pneumatic components and wirings adopt inward fittings.
7. Automatic and mechanical bottling, precise calculation and limited deflection.

### Main Technical Data:

Max forming depth	12mm
Cutting frequency	0-25 times
Film material	PVC/PE (0.2-0.4) ×120mm
Capacity	2-30 ml/pc
Installed power	3.5kw
Voltage	220v -380v/50Hz
Weight(kg)	300kg
Outer Size L×W×H(mm)	1300×1700×750 (mm)



## LDZ-125 AUTOMATIC CARTONING MACHINE



This machine can put bottles/blisters/soft tubes/ into the folded boxes and then close the boxes, some other machine can be also equipped additional function such as label sealing and shrink wrapping. Usually there are three inlets on this machine: one is for medicine instruction, one is for bottles/blisters/soft tubes/ and another one is for boxes. There are four steps on the whole processes from boxes feeding to final finished packages: box feeding; box opening, filling and closing. One box will be sucked from the box inlet, and then deliver it to the main line. The guide rail will fix the box and a pushing plate will open the box, at the same time two detents will rise up and fix the box from the front and back side so that the box sides will be right-angle and deliver the box forward to the filling area. After filling into box, the machine will fold two small flaps into the left & right guide rails, and then close the box. Before closing the machine will bend box cover, so that the fold of cover can be inserted and locked the box. This action is critical. Whether the box is good or not is based on machine's accurate adjustments.

### Main Function:

PLC controlling system, touch screen, inverters;  
Imported electric & pneumatic components;  
Automatically folding for medicine instruction; (1-4 folds at option);  
Automatically printing batch number;  
Multi functional ID system, online monitoring and eliminating  
Eliminating one bottle if a piece of medicine instruction is absent, Auto stop if no more medicine instruction;  
Alert function if no material, no boxes and no medicine instruction to make sure 100% finished products.  
No glue feeding if no boxes;  
Automatically stop if short of materials; can be combined multi materials;  
Automatically stop for overload protection  
Modular structure and specifications exchangeable, no need to replace and so on.

### Technical Parameters(We can change the machine size for suitable client box):

Speed:	80~110cartons/min
Carton dimension:	(45~180)×(30~85)×(12~50)mm
Manual dimension:	(70~200)×(70~140)mm
Power:	50Hz 380V 1.5KW
Air consumption:	10~15L/MIN
Vacuum suction:	-0.6Mpa (comes with vacuum generator)
Weight:	around 950Kg
Machine dimension:	2500×1100×1700mm
Carton requirement:	250~350g/sq.m
Manual requirement:	50~60g/sq.m

## DXD SERIES AUTOMATIC POUCH PACKAGING MACHINE

### Application:

It is used for packing loose, non sticky, granular ,powder, tablet and liquid material such as instant drink, pellet, mono-sodium glutamate, sugar, dried soup stuff and oatmeal and like in pharmacy, food and chemical industry.

### Characteristics:

This highly automatic packing machine has adopted a PLC programmable controller as well as an English and Chinese display screen that makes it easy to operate and convenient to be adjusted.

The use of advanced photoelectric digital tracking system makes it possible to set the length of package and when packing film with cursor mark is used, the first package is able to seize the cursor mark and get correct designed patterns. Synchronous package pulling system makes the movement of the packages smooth and accurate.

Sealed, insulated and corrosion-proof soft touching display screen is provided.



### Main Technical Parameter:

Type	80	140
Packing speed (pouches/min)	30-60	28-50
Range of measuring	1-50g	40-400(ml)
Package length(mm)	50-120	50-205
Package width (mm)	40-80	40-140
Type of bag-making	Three-side sealing, four-side sealing, or back sealing	
Power supply	380V,50HZ 3 Phased 4 lines system	
Total power (Kw)	0.9	1.65
Gross weight (Kg)	185	270
Dimension (L*W*H) (mm)	800 * 700 * 1550	995*800*1975



## DZB SERIES HIGH-SPEED PILLOW-BAG PACKAGING MACHINE



### Applications:

This is mainly applied to the packaging of biscuit, betel nut, snowy biscuit, snowy ice-olly, yolk pie, instant noodles, chocolate, candy, western snacks, tableware for aerial food, transparent soap, hotel articles, wet tower, gauze mask, IC card, cartoon card, electric components, trademark, little hardware etc. block-shaped things in the industries such as food, daily chemistry, cosmetics, hardware, electronics etc. It has the function of anti-moisture, dustproof and photonegative, and also enhances the product level and additional value. It can save more than 20% cost than using the manual packaging, and it can combine the aluminum plastic packaging machine and thermal contraction-packaging machine to manufacture

### Main Features:

1. Compact and reasonable structure, stable and advanced performance, easy and convenient operation.
2. Double frequency inverter control, and stepless variable speed. The length of bag can be set and be cut at any time, no need to be trailed operation on one step, and save time and film.
3. Adopt international famous electric components, PLC control, friendly interface, with convenient and rapid setting of parameters.
4. The indication of fault is clear, and function is more humanized.
5. Highly sensitive electric-eye color code tracing, which can make the sealing position be more accurate.
6. Accurate temperature setting, which is suitable for all various of packing materials and enhances the quality of seal.
7. Set the function of positioning power-off, without sticking to the blade and no waste of film.
8. Simple and clear transmission system with more reliable work and more convenient maintenance.
9. The control is realized through the soft, which facilitate the function regulation and technology upgrade, and they can also satisfy the production requirement.
10. Automatic feeder device on the blister, which is suitable for the automatic feeding for aluminum plastic dosage panel with many kinds of specifications.

### Main Technical Parameter:

Model	DZB-250D(E)	DZB-400D(E)
Packing capacity (pcs/min)	30-150.	
Bag size (LxWxH) (mm)	(60-190) × (30-110) × (5-40)	(60-190) × (30-180) × (5-60)
Max. width of film (mm)	250	400
Power supply	AC220V 50Hz,	AC220V 50Hz,
Power (Kw)	2.4	2.65
Weight (Kg)	700	800
Overall dimension (mm)	3350x1800x650	3500x1800x800

## DCS-1B SEMI-AUTOMATIC FILLING AND PACKAGING MACHINE



### Descriptive Abstract:

This machine can do measuring and filling work. Due to the special design, so it fits more to the fluidic or low-fluidity materials, like milk powder, gourmet powder, solid drink, white sugar, dextrose, coffee, fodder, solid medicine, agriculture pesticide, granularity additive, dyestuff, and so on. LCD (in Chinese or English), Servo-motor driving screw. The surface of whole machine is made by stainless steel but motor. Detachable transparent hopper can be washed without toolings.

### Characteristics:

Dexterous and flexible, easy removal. There is no limit of packaged container. It is widely used invariable materials and package-weight specifications.  
High speed response(exclusive in china)on-off or servo motor drive screw. High precision, high speed, big torsional moment, long life to use.  
weight feedback to run after the specific weight, overcome the shortcoming of the net weight change with the material specific-weight.  
LCD simply visual supervisory. Stepless adjust the net weight. Change the working parameter at any time, easy to control. Change the working parameter at any time, easy to control.  
Save the parameter of each product to later use. 10 sets of formula save at the most.  
Fit for lots of material range from fine-powder to coarse-granule, if change the screw attachment. Dust-collector set on dust material situation to absorb dust spout out.

### Main Technical Parameter:

Metering Mode	Screw rotation filling traced by weighing feedback
Package weight	10-5000g (The screw attachment is to be changed)
Filling precision	Package weight ≤ 100g, with an error ≤ ±2%
	100-500g, with an error ≤ ±1%
	> 500g, with an error ≤ ±0.5%
Packaging rate	10-45bags/min
Power supply	Three-phase 380V 50-60Hz
Total power	1.5KW
Total Weight	260Kg
Overall Dimensions	1140×970×2030mm
Hopper Volume	45L(70 liter for oversized hopper)



## FBL-360 FRONT & BACK LABELING MACHINE

### Brief Introduction:

FBL-360 is economical, and easy to operate, equipped with HMI touch screen & PLC Control System. Built in microchip makes fast and easy adjustment and changeover. This automatic labeling system is ideal for flat and square container.

### Key Features:

- Double Sides labeling efficiently
- Suitable for a wide scope, such as flat, square and rectangle bottle etc.
- HMI system easy to operation
- Variable Speed with stepless motor
- Stainless Frame
- Stamping Coding Device attached



### Specifications:

Speed: 50-100 bottles/minutes  
 Bottles size: can be customized based on the requirements  
 Dimensions: 2200mm×1500mm×1550 mm (L × W × H)  
 Weight: 450kg  
 Power: 1000W, Voltage: 220v, Frequency: 50-60HZ (optional)

## SL-254 SIDE LABELING MACHINE

### Brief Introduction:

SL-254 is suitable for labeling on the flat, square and rectangular bottles with 3 or 4 faces. The machine is economical and easy to operate. The performance is stable with a level off. The system easy changeover based the requirement.

### Key Features:

- Labeling speed up to 80 BPM (according to the length of label)
- PLC Control System which is easy to control
- Simple Straight Forward Operator Controls
- On-Screen trouble description which is easy to solve
- Stainless Frame
- Open Frame design, easy to adjust and change the label
- Variable Speed with stepless motor
- Label Count Down (for precise run of set number of labels) to Auto Shut Off
- Stamping Coding Device attached



### Specifications:

Labeling Speed: 50-80 bottles/minutes (according to the specification, shape of bottle and length of label)  
 Bottles size: customized based on the requirements  
 Label size: customized based on the requirements  
 Dimensions: 2000mm×1000mm×1500 mm (L × W × H)  
 Weight: 500kg  
 Power: 500W, Voltage: 220V, Frequency: 50-60HZ (Optional)  
 Working direction: Left → Right (or Right → Left)

## WTB-C LABELING MACHINE



### Introduction:

WTB-C Labeling Machine is equipped with microcomputer and LCD screen. The control system adopts LCD and PLC system, and display working information by text, graph and numbers, which is easy to read and input. WTB-C Labeling Machine is updated production. The machine is an electro mechanics integrating product with a succinct and rational structure. It can label adhesive label on the bottles, tubes properly. It can adjust the output according to the specification of bottles and labels. The machine can be used wide in pharmacy, food and cosmetics industry, it also fits all kinds of containers such as glass or plastic bottles. It can work with normal adhesive label and transparent labels by a good performance. (Adjustments of label inspection sensor please refer to attachment)

### Technical Parameter:

Labeling Speed: 80-200 bottles/minute (according to the specification, shape of bottle and length of label)  
 Bottles size: bottle with regular shapes 3-15ml Ampoule (standard)  
 Total Power: 280W; Voltage: 220V; Frequency: 50-60HZ  
 Size: 1600mm×600mm×1450 mm (L × W × H)  
 Net Weight: 180kg

### Working Condition And Environment:

1. Specification of label reel: OD ≤ 300 mm, ID of Reel 76 mm  
 Max Width of Labeler (including background leaf) ≤ 50 mm
2. Working temperature: 5~35°C
3. Working humidity 30%~80%, No clotted dew
4. Working environment: No flammable and explosive gas & dust



## RXH SERIES HOT AIR CIRCULATING OVEN



### Main Application :

It's applied for drying and dehumidification of material such as pharmaceutical, chemical foodstuff, light industry, heavy industry etc., as well as heating and dehumidification of product, including raw medicines, original medicines, doses, traditional Chinese medicine tablet, powder, granulate, electuary, ball packing bottle, pigment, dyestuff, dried vegetable, food, plastic resin, electric element and baking finish etc..

### Main Technical Parameters:

Type	Drying capacity	Power (kw)	Steam consumption (kg/h)	Radiation area(m)	Blast (mh)	Temperature deviation	Baking cart	Baking disc	Overall dimension (mm)
RXH-B-O	60	0.45	10	5	3450	±2degrees centigrade	24	1	1400*1200*2300
RXH-B-I	120	0.45	20	20m	3450	±2degrees centigrade	48	2	2300*1200*2300
RXH-B-II	240	0.9	45	40	6900	±2degrees centigrade	96	4	2300*2200*2300
RXH-B-III	360	1.35	71	80	10350	±2degrees centigrade	144	6	2300*2200*2300
RXH-B-IV	480	1.8	90	100	13800	±2degrees centigrade	192	8	4600*3200*2300

## SHK SERIES HIGH-SPEED MIXING GRANULATOR



### Principle:

The powder raw material and adhesive in a cylinder are mixed fully at the bottom to become a humid soft material. The it is cut through high-speed crusher and become uniform granules.

### Features:

1. The machine adopts horizontal cylinder structure. Its structure is reasonable.
2. Use air filled seal shaft to drive. When washing, it can be changed to water
3. Use fluidization to Granulate and the granule is near ball. Its flow is good;
4. Compared the traditional process,25% of adhesive can be reduced and the laying time can be shorted;
5. The time of mixing in dry is 2 minutes and the time of granulating is 1-4 minutes. Compared with the traditional process,4-5 times of efficiency is raised;
6. In the same sealed container, dry mixing, humidity mixing and granulating can be finished. It is in conformity with the requirements of GMP;
7. The whole operation has strict safe and protective measures.

### Main Technical Parameter:

Name	Unit	100	200	300	400
Volume	L	100	200	300	400
Production capacity	kg/batch	12-35	25-75	30-110	50-140
Admix speed	r.p.m	30-360	30-260	20-200	20-200
Admix power	kw	7.5	15	22	22
Incise speed	r.p.m	50-3000			
Incise power	kw	3	4	7.5	7.5
Compressed air consumption	m <sup>3</sup> /min	1.8			
Overall dimension	mm	2400*	2250*	2500*	2500*
		900*	1700*	1960*	1960*
Weight	Kg	1700	2100	2220	2150
		880	1410	1850	1900



## B SERIES UNIVERSAL CRUSHING SET



### Main Application:

This machine is applied for material crushing in such trades as pharmaceutical, chemical and foodstuff etc

### Working Principle:

By means of relative motion between movable and fixed fluted discs, material is crushed through impact and friction of the teeth and impact among the material. Designed according to GMP standard and wholly made of stainless steel, model 30B VI, model 40B and 60B crushing chamber is equipped with water cooling jacket, with simple structure, high output and easy cleaning, this machine is the ideal crushing equipment

### Main Technical Parameter:

Item	20B	30B	40B
Production Capacity(kg/h)	60-150	100-400	160-1000
Spindle speed(r/min)	4500	3800	3400
Feeding size(mm)	6	10	12
Crushing fineness(mesh)	60-120		
Crushing motor(m)	4	5.5	11
Dust collecting motor(kw)	1.5		
Overall dimension(mm)	1120*600*1750	1250*660*1750	1450*700*1750

## CSJ MODEL ROUGH MILL



### Main Usage:

This machine is applied by the industries of pharmaceuticals, chemical, metallurgy, foodstuff, and architecture etc. It specially grinds the hard and solid granule materials including the breaking of plastics materials and cooper wires, as well as the pre-treatment coordinated machine for fine grinding process.

### Specialty:

Accepting vertical grinding mechanism, this machine can process any material without being limited by the viscosity, hardness, or softness of the said material.

### Working Method:

Any raw material, being feed into the grind chamber through the upper feeder, struck and impacted by the knife-edges knife stand, cut and grinded simultaneously by the revolving and fixed knives, automatically runs to the exist by the centrifugal force of revolving object.

### Main Technical Parameter:

Model	CSJ
Capacity (kg)	100-500
Size of input granules (mesh)	≤100
Size of output granules (mesh)	0.5-20
Power (kw)	5.5
Speed of principal axis (rpm)	960
Overall size (L*W*H) (mm)	560*850*1280
Weight (kg)	300



## WF SERIES FINE PULVERIZER



### Main Application:

This machine is applied for material crushing in such trades as pharmaceutical, chemical and foodstuff etc.

### Working Principle:

This machine is of hammer type crusher, material is fed into the crushing chamber by a hopper through screw conveyor and crushed by high speed rotating hammer, in which, water cooling jacket is available. It is simple in structure and easy to assemble and clean the crushing chamber, moreover, model WF-180 and 320 are wholly made of stainless steel, making the crushed material met the GMP requirement.

### Main Technical Parameter:

Model	WF180	WF320
Production capacity (kg/h)	30~80	100-300
Feed size(mm)	≤1	≤5
Crushing fineness(mesh)	80~400	
Main motor(kw)	1.5	
Feeding motor(kw)	0.2	0.2
Overall dimension(mm)	850*840*2060	1250*1120*2250

## ANTIBIOTIC VIAL PRODUCTION LINE



### Description:

The production capacity of this production line is 300bts/min; it is suitable for big production capacity of injectable powder. This line is developed by our technical personnel with imported advanced mechatronics technology. Its structure is more reasonable and practical. It integrates GMP requirements into the designing of the machinery, so that the machines are without contamination and easy to clean. It can ensure producing qualified drugs.

Machine consist of:

Washing machine	(KCQ60)
Tunnel oven	(GMS-B)
Filling machine	(KFG2A)
Capping machine	(KGL250)

### Characteristic:

Outer feature: outer material is stainless steel, dull polished. The whole line is good in appearance, easy to clean. It complies with GMP regulations and can be suitable for several bottle specs.

Structure feature: water filling→ultrasonic wave coarsely washing→circulation water→circulation water + spraying wfi→compressed air→WFI→compressed air + spraying compressed air→tunnel oven preheating→high temperature sterilization→cooling→bottle feeding→filling→stoppering→(lyophilizer)→cap-adding→cap-sealing→labeling→to the next process high temperature sterilization→cooling→bottle feeding→screw filling→stoppering→cap-adding→cap-sealing→light inspection→labeling→to the next process.

Filling dosage feature: no powder outside, filling error is small.

Running feature: stable running, low noise, precise filling, low energy consumption, low bottle breakage ratio, high qualified product ratio. The whole line can single machine control or interlock control. Washing machine 4 water and 4 air ensure washing effect; tunnel oven high temperature ensure removing pyrogen; servo motor ensure filling precision; 10-head capping machine ensure sealing effect; labeling machine pneumatic coding ensure labeling speed.



## DSG2-A EYE DROP LIQUID FILLING MACHINE



### Brief introduction:

DSG2-A type is an eye drop liquid filling machine our company has developed for the production of ophthalmic medicine. It adopts peristaltic pump and 2 head fixed filling.

### Characteristic:

Manipulator moves the nozzles to improve the feeding stoppers rate when using thin edge nozzles.

Single chip system controlled peristaltic pump filling, dosage precision is high, can adjust the dosage without stopping the machine.

Filling, feeding stoppers and capping monoblock machine. Space saving and simple structure. Good appearance and easy to clean.

Graduator positioning is precise, running is stable can fill bottles of different size

Touch panel control panel, easy operation and high automation degree. Speed adjustable by inverter

No bottle no filling; auto stops when no caps.

### Main Technical Parameter:

Suitable bottle range	5-20ml	plastic bottle 70-120 bottles/min(change the proper change part)
Filling error	≤1.5%	
Auto feeding stopper ratio	≥99.5%	
Bottle breakage ratio	≤0.1%	
Power supply	220V 50Hz	
Power(Kw)	1.3	
Filling head	2-head filling	
Compressed air pressure	0.4~0.6Mpa	25~35 L/min
Single machine noise(dB)	≤70	
Weight(Kg)	About 800Kg	
Dimension(mm)	2620*1250*1800	

## QCK ULTRASONIC WASHING MACHINE



### Brief Introduction:

QCK series is the product which our factory has large output for the passed many years. It is deeply favored by pharmaceutical factories. Its advantages: simple structure, easy operation, easy to clean low cost. It can be used for washing of molded vial and big volume plastic bottle. Scandalized parts can be easily changed.

### Characteristic:

Ultrasonic wave can clean the wall of the vial, the cleaning effect is good, and the speed is adjustable by inverter.

Clean compressed air water can wash the wall of the vial thoroughly.

Structure is compact; volume is small with stainless steel water tank. The washed water can be used as recirculation water after filtering. The cleaning effect is good and the cost is low.

Easy operation and fully automatic control.

Can suits vials with different spec. The change part is easy to change.

Can use as single machine or part of the production line

### Main Technical Parameter:

Available	2-20ml, 30-250ml
Capacity(vials/min)	130-500 (7ml)
Clear qualified rate	≤99.5%
Bottle broken rate	≤0.1%
Noise(dB)	≤70
Injection water	Pressure: 0.2~0.35MPa Water consumption: 0.45m³/h Temperature: 60~80℃
Pure water	Pressure: 0.2~0.35MPa Water consumption: 0.45m³/h
Clean compressed air consumption	40 m³/h(0.6Mpa); Oil free, dry,0.1µfilter;
Power(Kw)	8.2(380v/50Hz three phase)
Overall Dimensions(mm)	2780*840*1750(L*W*H)
Machine weight(Kg)	500



## CJY-300B TABLET BRITTLINESS INSTRUMENT

### Description:

CJY-300C type tablet brittleness instrument is a metering equipment for controlling tablet stability. Suitable to examination mach stability, wear resistance, resistance to collision as well as other physics strength such as cracking strength etc in table plant medicine examining institute and hospital etc. it's essential, to examine, reliable datum can not be offered for tablet of sugar coating, being in accordance with standard of medicine code 2000 edition of china, regarding examination of medicine.

### Brittleness:

This instrument equipped with the two wheel drums of transparent organic glass, auto stop alarm is to be performed till 100 rotation within 25 rpm projection about whole instrument structure reasonable, layout comfortable, operation simple, open and close in drum during feeding medicine convenient, transparency high so as to observe metering condition.

### Main Technical Parameter:

Inside dia. of wheel drum:  $\varnothing 286$  mm  
Depth of wheel drum: 39mm  
Speed: 25rpm, 100 times stopping machine.



## RCZ-6C3 SIX-CUP MEDICINE DISSOLVING INSTRUMENT

RCZ-6C3 type medicine dissolving instrument is a new product prepared in accordance with specification of chinese Pharmacopoeia 2000 edition, its indexes of main characteristics excess same sort of product at home. Up-down driver with double upright pillars adopted so as to be beautifully fashioned layout, operate conveniently and get high autoimmunization, projection about the most new of circuit applied, property outstanding, measured datum precise. Besides human body imitated by tablet to make trial, degree of dissolution about pill tablet and capsule to be measured, also can be sued in food and cosmetic professions for measuring dissolution relative to them. It can be widely applied to medicine examining section. College of medical science, department of researches as well as laboratory.



### Main Technical Parameter:

Limit of thermo controlling:  $36.5 \sim 38.5$  °C (Digital display)  
Speed Limit: 25 ~200rpm (digital Display)  
Accuracy of thermo controlling:  $\pm 0.3$  °C  
Tolerance of stable speed:  $< \pm 4\%$   
Wagging width at rotary basket rotating:  $< \pm 1.0$ mm  
Syn axis rake between rotary axis and flask:  $< \pm 1$ mm  
Wagging width of up-down and left-right on external part at paddle rotating:  $< \pm 0.5$ mm  
Number of flask: 6 pieces

## SF-1 FAST MOISTURE TESTER

SF-1 Series are suitable for testing water in powder or granule.

### Applicable standards:

Chinese Pharmacopoeia 2000  
National Standard (Food additive Gelatin) GB8783-94  
Corporate Standard (Fast moisture tester) Q/12xq0191-2004

### Features:

Drying in constant temperature with infrared lamp, heating being focused, drying fast.  
High-precision temperature sensor, auto frequency-conversion control technology, high accuracy in controlling temperature  
High-precision weight sensor, high accuracy in weighing  
Auto-test lost weight in drying, auto-calculate remainder water after weight being constant  
Auto-preset drying temperature, auto-test moisture, display preset and real-time data alternately in time  
Automation: Auto-test, auto-diagnose, auto-alarm



### Technical parameter:

Tested moisture range: 0-99.9%  
Moisture testing accuracy:  $\pm 0.5\%$   
Drying temperature: 50-105 °C  
Temperature Accuracy:  $\pm 2$  °C  
Weight Testing Range: 0-19.99g  
Weight testing accuracy:  $\pm 0.02$ g  
Sample weight: 4-6g  
Infrared Lamp: 220v/250W  
Power: 220v/50Hz/300W  
Dimension: 400×300×420mm3

## YPD-200C TABLET HARDNESS INSTRUMENT

YPD-200C type tablet hardness is suitable for making trial of tablet's hardness in each of medicine factories, education and research of medicine, and medicine examining departments: equipped with advanced transducer's circuit, installation of taking in and taking off with motor for automatic measure. Operation convenient, measuring accuracy high and good intuition of measuring value displaying with digital tube in this instrument regarding being master of laboratory's datum relative to medicine tablet's hardness reliability how to effect on coating, packing and transportation as well as to degrees of cracking relief and dissolution of medicine tablet's measured hardness, essential basis to be offered.

### Main Technical Specifications:

Max diameter of tested tablet: 2-30mm  
Pressure's limit of measured tablet: 0-200N  
Measuring accuracy:  $\pm 2\%$ N





## LB-2D DISINTEGRATION TIME LIMIT TESTER



### Brief Introduction Of Product:

LB-2D Disintegration Time Limit Tester is a specialized test instrument used for control in medicine quality of solid agent. It can be applied to disintegration time limit test of solid agent such as pill, sugar coated pill, film pill, intestine resolved pill, paste immersed pill, capsule, etc.

With the purchase of product from our factory, suppository disintegration accessory, you can not only test disintegration time limit of suppository medicine, but also test the dissolution degree of pill by method of Hanging Basket.

Testing of disintegration time limit is created in our factory and the scientific achievement has filled the blank of domestic pharmacy industry.

### Main Technical Parameter:

Type	LB-2D
Number of Cups	2
Times of Hanging Basket Up and Down(times)	30-32
Distance Hanging Basket Covers Vertically(mm)	55±1
Number of Glass Tubes Per Hanging Basket	6
Distance from Rising Basket Net to Liquid Level(mm)	25
Distance from Falling Basket Net to Bottom of Cup(mm)	25
Cubage of Solution Cup(flat bottom beaker)(ml)	1000
Precision in Constant Temperature(°C)	37±0.5
Timing Range of Clock(minutes)	0 – 999
Temperature of Overheating Protective Device(°C)	60±5
Power(w)	300
Power Supply	220±10%V、50hz
Temperature of Working Environment(°C)	10°C ~ 35
Humidity of Working Environment	Relative humidity < 85%
Size(mm)	350 x 320 x 365
Weight(kg)	15

## BY SERIES SUGAR COATING MACHINE

### Description:

This machine can be use for the tablets and pills for pharmaceutical and food industries. It is also used for rolling and heating beans and edible nuts or seeds. As its feature, the sugarcoating round pot is elevated with a elevation 30° to the horizontal, the heater such as gas or electrical heater can placed directly under the pot. A separated blower with electric heater is provided with the machine. The pipe of the blower stretches into the pot for heating or cooling purpose. The thermal capacity can be selected in two levels.



### Main Technical Parameter:

Type	Capacity (Kg)	Angle of inclination	Motor power (Kw)	Fan power (Kw)	Overall dimension (mm)	Heating power (Kw)	Weight (Kg)	Rotary speed (rad/min)
BY300	1-3	30°	0.37	40	800×800×1200	1	200	0-46
BY400	2-5	30°	0.55	40	800×800×1200	1	200	0-46
BY800	30-50	30°	1.1	200	1000×1000×1550	3	400	0-32
BY1000	50-70	30°	1.5	200	1200×1200×1600	4	450	0-32
BY1250	80-150	30°	2.2	370	1350×1350×1600	6	800	0-28

## TDP SINGLE PUNCH TABLET PRESS

This machine is designed for pressing round tablets from various granular materials, applicable to lab used for research and development and to small-scale production. as its feature, it is a small desk-top continuous press driven by motor or man-power. Only one set of punch and die is mounted, the depth of the filling material and the thickness of the tablets can be adjusted.



### Main Technical Parameter:

Item	TDP	TDP-5	TDP-6
Dies	1 Set	1 Set	1 Set
Max. Pressure(KN)	15	50	60
Max. Dia. of Tablet(mm)	12	20	25
Max. Depth of Fill(mm)	11	18	16
Max. Thickness of Tablet(mm)	6	7	10
Production Capacity(pcs/h)	6000	6000	4000
Production Capacity(pcs/h)	6000	6000	4000
Motor	380V/50Hz/250W	380V/50Hz/550W	380V/50Hz/550W
Machine Size(mm)	580*450*625	650*440*650	650*600*700
Net Weight(Kg)	70	100	160